TA-AV421

SERVICE MANUAL

US Model Canadian Model



SPECIFICATIONS

AUDIO POWER SPECIFICATIONS
POWER OUTPUT AND TOTAL HARMONIC
DISTORTION:

With 8-ohm loads, both channels driven, from 40 - 20,000 Hz; rated 110 watts per channel minimum RMS power, with less than 0.9% total harmonic distortion from 250 milliwatts to rated output.

Frequency response

PHONO: RIAA curve

CD, VIDEO: 10 Hz - 50 kHz ±3 dB

Input

	Sensitivity	Impedance
PHONO	2.5 mV	50 kilohms
CD, VIDEO	250 mV	50 kilohms

Output

SPEAKER: Accepts speakers of 8

to 16 ohms

HEADPHONES: Accepts headphones with low and high

impedance Rear: 10 W + 10 W

(at front off, 8 ohms) BASS: ±10 dB

Dimensions Approx. 43

TREBLE: ±8 dB Approx. 430 x 145 x 360 mm (w/h/d)

Weight

(17 x 5³/₄ x 14¹/₄ inches) Approx. 9.5 kg (20 lb 15 oz) net Power requirements Power consumption

Accessories supplied

120 V AC, 60 Hz
220W (US model)
430VA (Canadian model)
AM loop antenna (1)
FM wire antenna (1)
Remote Commander RM-U421 (1)
Sony batteries SUM-3(NS) (2)
Audio signal connecting cord (phono plug x 2 ←
phono plug x 2) (1)
SYSTEM CONTROL 1 cord (1)
SYSTEM CONTROL 2 cord (1)
SYSTEM CONTROL 3 cord (1)
(For USA model, the SYSTEM
CONTROL 1 and 3 is equipped on the TC-W421.)
Model only for Canada:
Headphone MDR-006 (1)
Plug adaptor (1)

Design and specifications are subject to change without notice



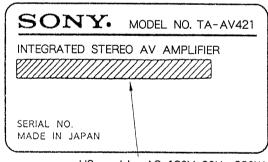
INTEGRATED STEREO AMPLIFIER SONY®

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MODEL IDENTICATION

- Specification Label -



US model: AC 120V 60Hz 220W Canadian model: AC 120V 60Hz 430VA

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM-POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

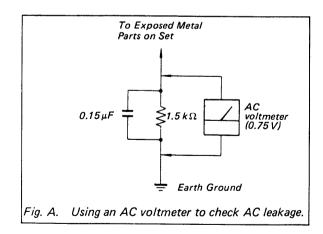
After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

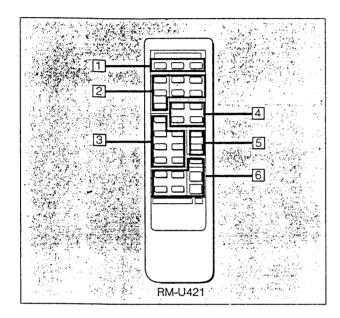


SECTION 1 GENERAL

This section is extracted from instruction manual.

Remote Commander

The remote commander supplied with this unit can control the unit from a distance. The remote commander is divided into 6 sections according to the functions as shown below.



1 Power control block

VCR 3/TV/AUDIO POWER buttons: Control the power of each unit.

2 TV/VTR control block

VCR 3 operation buttons:

- ►: Play
- ■: Stop

ANT (antenna) TV/VTR button: Selects the output signal from the antenna terminal on the VCR, either a TV signal or VCR programs.

TV VOL (volume) +/- buttons: Control the volume of TV.
TV CH (channel) +/- buttons: Select the channel of the TV.

3 CD control block

SHUFFLE button: Set to the shuffle play mode.

►: Plav

In the TUNER mode:

Press CD ► once, the unit enters the CD mode.

Press CD ► twice, the CD player starts playback.

In the mode other than the TUNER mode:
Press CD ► once, the unit enters the CD mode and

starts playback.

■: Stop

H (AMS: Automatic Music Search): Locates a desired selection.

D (disc) SKIP button: Disc skip

CONTINUE button: Set to the continuous play mode.

4 SURROUND control block

SURROUND mode selectors (for the amplifier)
ON/OFF: Turns on/off the surround mode.
MODE: Selects the surround mode.
REAR VOL +/- buttons: Control the volume of rear speakers (surround level).

5 Tuner control block

TUNER PRESET +/- buttons: Select a preset station of the tuner.

6 Amplifier control block

FUNCTION selectors: Select an input source of the amplifier.(for the amplifier)

DBFB button: Turns on/off the DBFB (Dynamic Bass Feed Back). (for the amplifier)

MASTER VOL +/- buttons: Control the amplifier volume.

Battery life

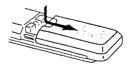
About half a year of normal operation can be expected when using the Sony SUM-3 (NS) batteries. When the batteries are exhausted, the remote commander can no longer operate the unit. If this happens, replace both batteries with new ones.

To avoid battery leakage

When the commander is not be used for a long time, remove the batteries to avoid damage caused by battery leakage and corresion

Inserting the batteries into the remote commander

1 Open the cover.

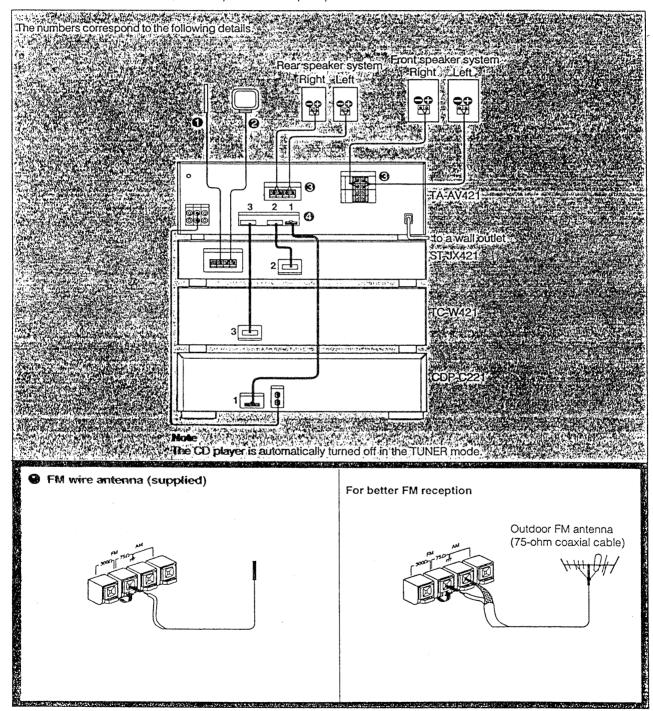


2 Insert two size-AA (R6) batteries with correct polarity



Hooking Up the System

- Connect the AC power cord last. Make sure power is off.
- Cord plugs and jacks are color coded. Red plugs and jacks are for right channel (R) and white ones for the left channel (L).
- The cable connectors should be fully inserted into the jacks. A loose connection may cause hum and noise.
- Keep speaker cords, connecting cords and power cords away from the AM loop antenna and the tuner's antenna lead-in to avoid possible noise pickup.

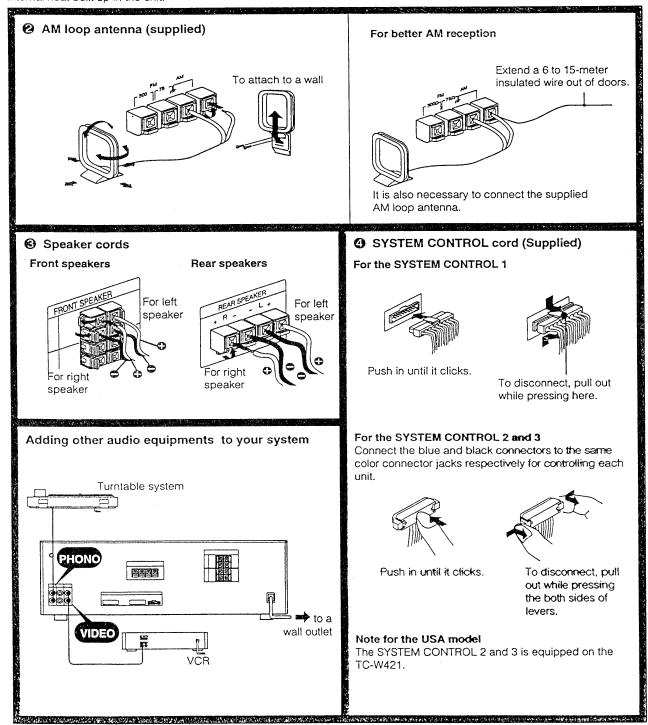


Hooking Up the System

CAUTION

Do not put anything like another unit to obstruct the ventilation holes on the top of the unit.

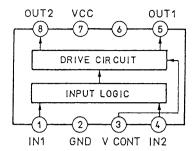
The level surface installation is required for essential air ventilation to prevent internal heat built up in the unit.



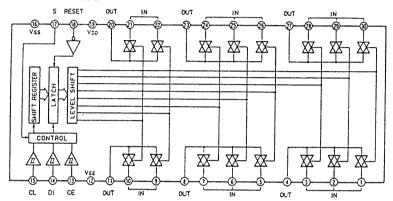
2-1. IC BLOCK DIAGRAMS

SECTION 2 DIAGRAMS

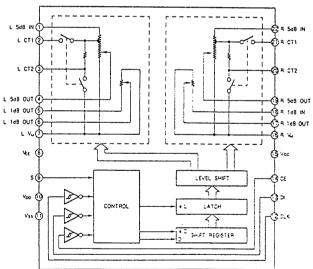
• IC403 LB1639



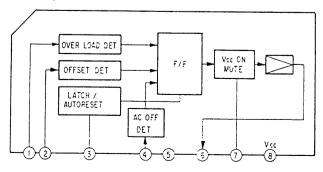
• IC401 LC7535



• IC502 LC7822



• IC701 μ PC1237HA



2-2. IC DESCRIPTION

• IC101 (μPD75206GF-722-3BE)

Pin	Port	I/0	ACT	RESET	Outside	
1	RESET	I		1		
2	tO	0	Н	High	L	DIGIT2
3	t1	0	Н	High	L	DIGIT1
4	t2	0	Н	High	L	DIGIT3
5	t3	0	Н	High	L	DIGIT4
6	t4	0	Н	High	L	DIGIT5
7	t5	0	Н	High	L	DIGIT6
8	t6	0	Н	High	L	DIGIT7
9	t7	0	Н	High	L	DIGIT8
10	t8	0	Н	High	L	DIGIT9
11	t9	0	Н	High	L	NC
12	t10	0	L	High	L	REAR MUTE
13	t11	0	L	High	L	FRONT MUTE
14	t12	0	L	High	L	V-2 (NO USE)
15	t13	0	L	High	L	V-1 REC (NO USE)
16	t14	0	L	High	L	SURROUND A
17	t15	0	L	High	L	SURRONUD B
18	Vload			High		- 30V
19	vpre		_	High		- 4V
20	s9	0	Н	High	L	DBFB
21	s8	0	Н	High	L	SEG1
22	s7	0	Н	High	L	SEG2
23	s6	0	H	High	L	SEG3
24	s5	0	H	High	L	SEG4
25	s4	0	H	High	L	SEG5/KEY OUT 5
26	V _{DD}			High		+ 5V
27	s3	0	Н	High	L	SEG6/KEY OUT 4
28	s2	0	Н	High	L	SEG7/KEY OUT 3
29	s1	0	Н	High	L	SEG8/KEY OUT 2
30	s0	0	Н	High	L	SEG9/KEY OUT 1
31	p00	I	Н	In	L	STOP
32	p01	I	Н	In	L	KEY IN 2

High: High-impedance status

In : Input status

Pin	Port	I/0	ACT	RESET	Outside	
33	p02	I	H	In	L	KEY IN 3
34	p03	I	Н	In	L	KEY IN 4
35	p10	I	Н	In	L	KEY IN 5
36	p11	I	Н	In		RM-IN 1
37	p12	I	L	In		KEY IN 1
38	p13	I	L	In		POWER SW
39	p20	0	Н	In	L	ST LC7535/LC7822
40	p21	0	L	In	L	ST LV1001M
41	p22	0	Н	In	L	VOL +
42	p23	0	Н	In	L	VOL –
43	p30	0	Н	In	L	VIDEO A
44	p31	0	H	In	L	VIDEO B (NO USE)
45	p32	0	Н	In	L	VIDEO C
46	p33	0	Н	In	L	AUTO LED
47	p60	0	Н	In	L	CD CONTROL
48	p61	0	Н	In	L	CLOCK
49	p62	0	Н	In		DATA
50	p63	0	Н	In		FRONT SP RELAY
51	p40	0	Н	In	L	REAR SP RELAY
52	p41	0	Н	In	L	CENTER SP RELAY (NO USE)
53	p42	0	L	In	L	CENTER MUTE (NO USE)
54	p43	0	Н	In	L	POWER RELAY
55	ppo	0	H	In	L	P LOGIC 1 (NO USE)
56	x1					
57	x 2					
58	Vss					
59	xt1					
60	zt2					
61	p50	0	Н	In		P LOGIC 2 (NO USE)
62	p51	0	Н	In		P LOGIC 3 (NO USE)
63	p52	0	Н	In		P LOGIC 4 (NO USE)
64		0	Н	In		P LOGIC 5 (NO USE)

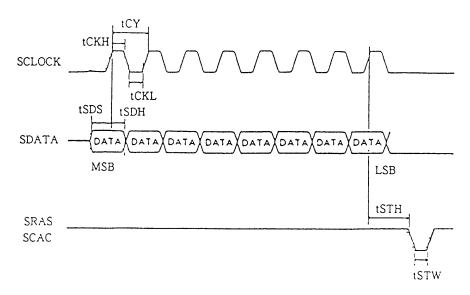
High: High-impedance status

In : Input status

• IC304 (LV100M)

Pin No.	Explanations
1	De-couple capacitor for threshold voltage
2, 64	Capacitor for smoothing of rectifier output
3	Capacitor for sliding band filter and Delayed output
4, 62	Capacitor for sliding band filter
5, 61	Capacitor for pre-emphasis
6, 60	Input filter for rectifier
7, 57	Input filter for rectifier
8	Reference voltage
9	Reference voltage
10	Mute control
11	Vcc
12	Output for V _{DD}
13	Clock input for serial input, data input for parallel input mode
14	Data input for serial input, data input for parallel input mode
15	Column address selection for serial input, data input for parallel input mode
16	Row address selection for serial input, data input for parallel input mode
18 to 32	Connection to memory device
24	Vss
33	X'tal resonator for oscillator
34	X'tal resonator for oscillator
35	Long or Short mode selection
36	Serial or Parallal mode selection
37	For test mode
38	Smoothing for NR rectifier
39	Smoothing for NR rectifier
40	Capacitor for weighting on side chain path
41	Input for variable resistor
42	NR output
43	7kHz low pass filter output
44	Input for NR
45	Capacitor for de-couple on NR
46	Delay output or NR output
47	Input for mute circuit
48	Output for 71447 low page filter
49 50	Output for 7kHz low pass filter
	Input for 7kHz low pass filter
51 52	GND Input for right channel
	Input for right channel
53 54	Input for left channel
55	Capacitor for de-couple on Fixed matrix output
56 56	Noise shaping and delay input
57	Noise shaping output
	Delay input signal mode select switch $(L + R/L - R)$
58 63	Filter for supply voltage on comparator
C3	Capacitor for sliding band filter and local decoder output

Input Address Port Timing SHORT MODE

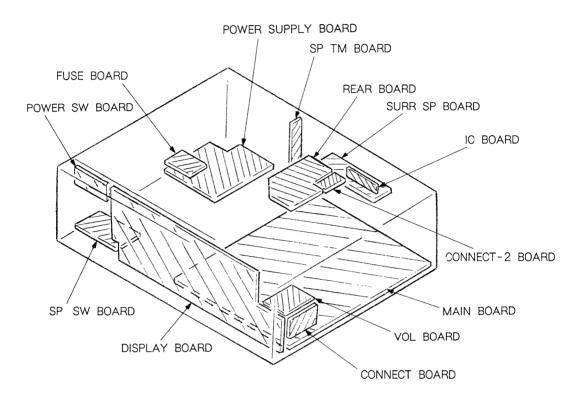


In case of short mode, delay time setting is set in above timing. The date loaded to SDATA is written on the leading edge timing. In order to select that the data latch for row address strobe or column address strobe is loaded, SRAS or SCAS port is controlled.

When changing delay time setting, meaningless data on a memory are read, this causes the pop noise, when SRAS or SCAS is controlled, mute circuit (pin 55 is input, pin 56 is output) is activated. Mute time is the same as the delay time which is set at that time. (Serial data input mode only, On parallel data input mode, mute circuit is activated by using the mute control port pin 18.)

On long mode, input data number is 9, the way of setting delay time is same.

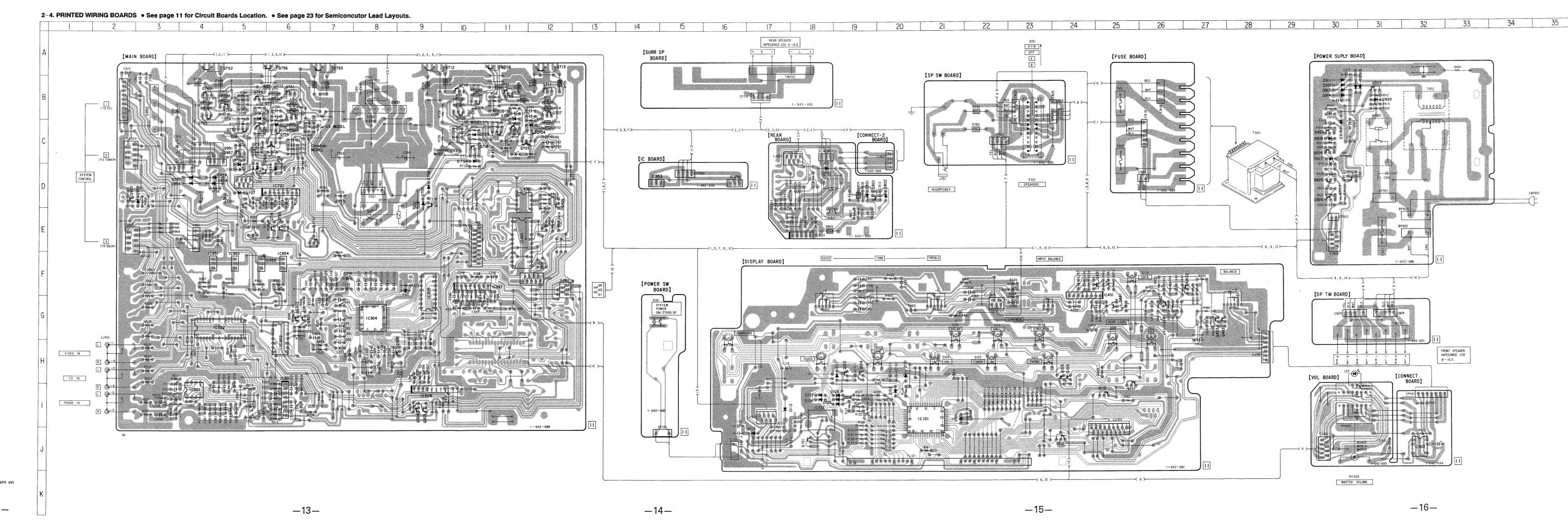
2-3. CIRCUIT BOARDS LOCATION



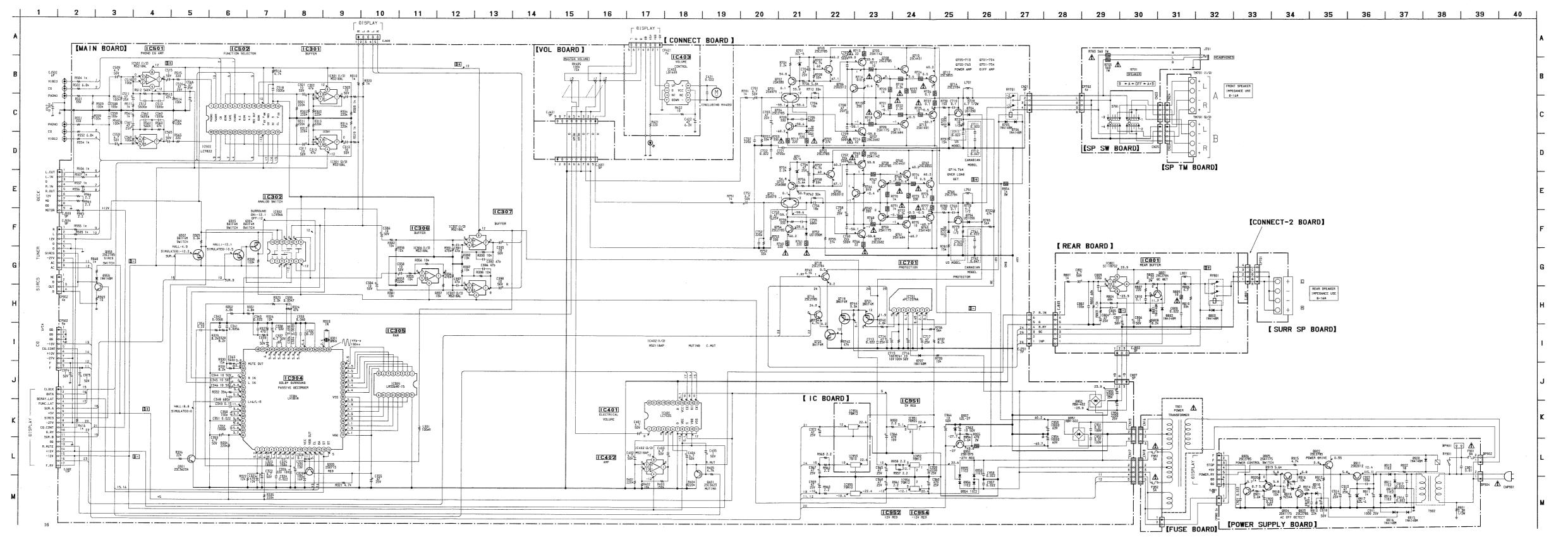
• Semio	conductor l		,
Ref. No	Location	Ref. No.	Location
			Location D-16 J-18 H-19 H-24 J-25 G-66 J-9 D-124 G-66 J-9 D-124 J-25 G-19 D-10 D-10 D-10 D-10 D-10 D-10 D-10 D-10

- Parts extracted from the component side.
- Jumper wire connected to the ground pattern on the component side.

 Pattern on the side which is seen.



2-5. SCHEMATIC DIAGRAM —MAIN SECTION— • See page 9 for IC Description. • See page 24 for IC Block Diagrams.



-19-

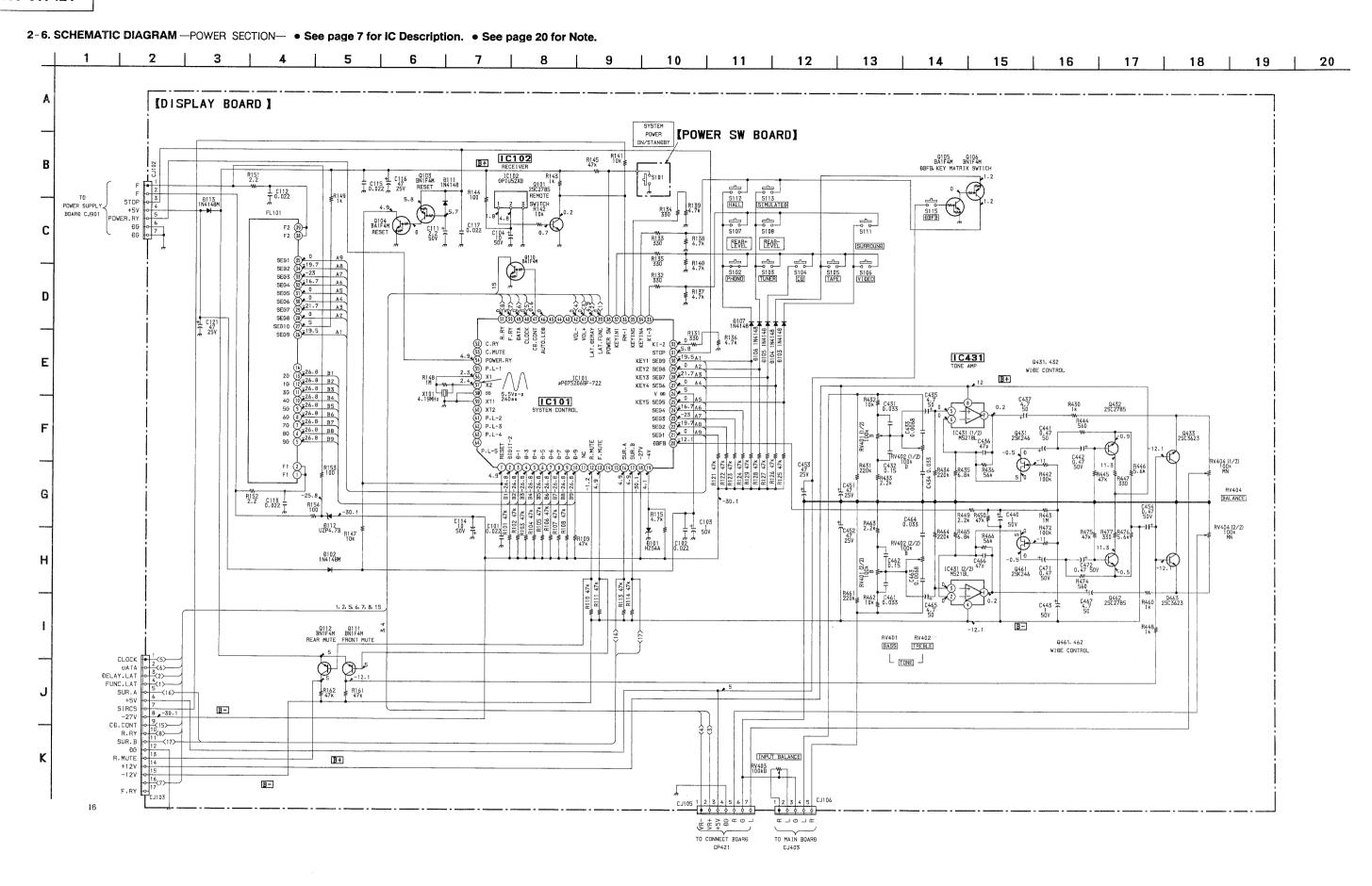
Note on Schematic Diagram :

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and
- ullet All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise
- - : nonflammable resistor.

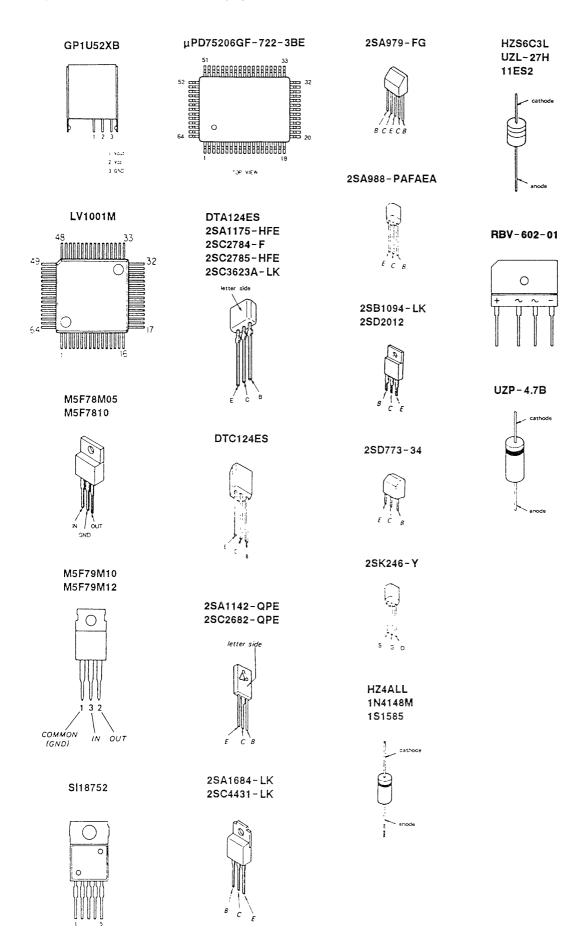
Note :The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.

Replace only with part number specified.

- B + : B + Line
- B : B Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- no mark : PHONO
- Voltages are taken with a VOM (input impedance 10 MΩ). Voltage variations may be noted due to normal production
- tolerances. Signal path.
- ⇒ : PHONO



2-7. SEMICONDUCTOR LEAD LAYOUTS



SECTION 3 EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts Example:

KNOB, BALANCE (WHITE)...(RED)

↑ ↑

Parts color Cabinet's color

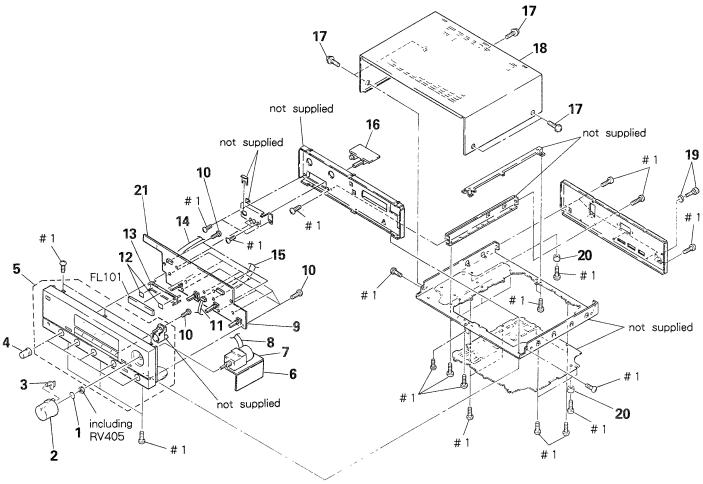
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque $extstyle \Delta$ sont critiques pour la sécurité.

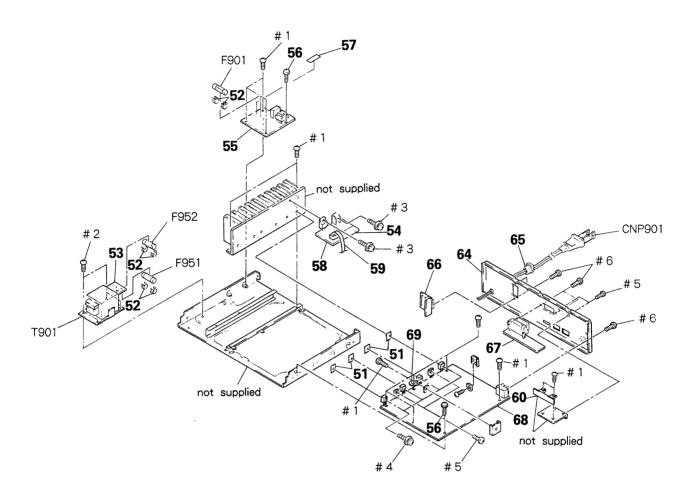
Ne les remplacer que par une pièce portant le numéro spéci-fie.

3-1. OVERALL SECTION 1



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	3-350-426-01 SPRI	NG, RING		* 12	4-921-941-01 CUS	HION (FL)	
2	4-949-659-01 KNOB	(VOL-NEW)		* 13	4-943-107-01 HOL	DER (FL TUBE)	
3	4-943-092-01 PLAT	E(VOL), LIGHT GUIDE		14	1-690-114-11 WIR	E, FLAT TYPE (7 CORE)	
4	4-949-640-01 KNOB	(DIA. 21)		15	1-590-487-11 WIR	E, FLAT TYPE (17 CORE)	
5	A-4325-426-A PANE	L ASSY, FRONT (US)		* 16	1-642-690-11 SP	SW BOARD	
5	A-4325-427-A PANE	L ASSY, FRONT (Canadian)		17	3-704-366-01 SCR	EW (CASE) (M3X8)	
* 6	1-642-694-11 CONN	ECT BOARD		18	4-931-031-11 CAS	E	
* 7	1-642-693-11 VOL	BOARD		19	3-706-165-00 SCR	EW	
8	1-690-588-31 WIRE	, FLAT TYPE (9 CORE)		20	X-4941-229-1 F00	T ASSY (F2112S-M)	
* 9	A-4347-048-A DISP	LAY BOARD, COMPLETE		* 21	1-642-685-11 POW	ER SW BOARD	
10	4-928-635-01 SCRE	W, +BV (2.6X8) TAPPING		FL101	1-519-663-11 IND	ICATOR TUBE, FLUORESCENT	
11	1-575-666-11 WIRE	, FLAT TYPE (5 CORE)					

3-2. OVERALL SECTION 2



Ref. No.	Part No.	Description		Remarks	Ref. No.	Part No.	Description	<u>Remarks</u>
51	4-911-232-01	SHEET, INSULATING			* 64	4-949-769-11	PANEL, BACK (Canadian)	
52	1-533-217-31	HOLDER, FUSE			65	3-703-244-00	BUSHING (2104), CORD	
* 53	1-642-689-11	FUSE BOARD			* 66	1-642-691-11	SP TM BOARD	
* 54	1-642-684-11	CONNECT-2 BOARD			* 67	1-642-692-11	SURR SP BOARD	
* 55	A-4347-051-A	POWER SUPP BOARD,	COMPLETE		* 68	A-4347-042-A	MAIN BOARD, COMPLETE (US)	
56	2-383-566-00	SCREW			* 68	A-4347-052-A	MAIN BOARD, COMPLETE (Cana	adian)
* 57	3-701-946-28	LABEL (6.3A125V),	FUSE (Canadian)		* 69	4-942-204-01	PLATE, GROUND	
* 57	4-949-520-20	LABEL (T4AL) FUSE			∆CNP901	1-551-478-00	CORD, POWER	
* 58	1-642-682-11	REAR BOARD			 ∆F901	1-532-748-11	FUSE, GLASS TUBE 6.3A 125	V (Canadian)
59	1-590-241-11	WIRE, FLAT TYPE (7	CORE)		▲ F901	1-532-749-11	FUSE, GLASS TUBE 8A (US)	
* 60	1-642-698-11	IC BOARD			▲ F951	1-576-109-11	FUSE 5A 125V	
* 64	4-949-769-01	PANEL, BACK (US)			▲ F952	1-576-109-11	FUSE 5A 152V	
					▲T901	1-450-806-11	TRANSFORMER, POWER	

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque A sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

CONNECT

CONNECT-2

SECTION 4 ELECTRICAL PARTS LIST

DISPLAY

specified.

NOTE:

The components identified by mark Λ or dotted line with mark ⚠ are critical for safety.
Replace only with part number

Les composants identifiés par une marque A sont critiques pour la sécurité. Ne les remplacer que par une

pièce portant le numéro spéci-fie.

When indicating parts by reference number, please include the board

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- XX, X mean standardized parts, so they may have some difference from the original one.
- RESISTORS

All resistors are in ohms. METAL: metal-film resistor METAL OXIDE: Metal Oxide-film resistor

F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS In each case, $u: \mu$, for example: $uA...: \mu A..., uPA..., \mu PA...$ uPB..., μ PB..., uPC..., μ PC..., uPD..., μ PD...
- CAPACITORS:
- $uF: \mu F$ COILS 11H · "H

name.					F: no	onflammable				uH: μH			
Ref. No	. Part No.	Description	<u>on</u>			Remarks	<u>F</u>	Ref. No.	Part No.	Descripti	<u>on</u>		Remarks
*	1-642-694-11	CONNECT BOARD						C112	1-164-097-11	CERANIC	0. 022uF		50V
		******						C113			0. 022uF		50V
									1-124-907-11		10uF	20%	50V
		< CAPACITOR >							1-164-097-11		0. 022uF		50V
									1-124-477-11		47uF	20%	25V
C422	1-126-154-11	ELECT	47uF		20%	6. 3V							
								C117	1-164-097-11	CERAMIC	0. 022uF		50V
		< CONNECTOR >						C121	1-124-477-11	ELECT	47uF	20%	25V
								C431	1-130-489-00	MYLAR	0. 033uF	5%	50V
CP421	1-569-132-11	PIN, CONNECTOR	7P					C432	1-136-167-00	FILM	0. 15uF	5%	50V
								C433	1-130-481-00	MYLAR	0.0068uF	5%	50V
		< RESISTOR >											
								C434	1-130-489-00	MYLAR	0. 033uF	5%	50V
	1-249-409-11		220		1/4W			C435	1-124-927-11	ELECT	4. 7uF	20%	100V
R422	1-249-393-11	CARBON	10	5%	1/4W			C436	1-162-215-31	CERANIC	47PF	5%	50V
								C437	1-124-927-11	ELECT	4. 7uF	20%	100V
								C440	1-124-903-11	ELECT	1uF	20%	50V
*****	*********	******	*****	*****	*****	**							
*	1_6/2.69/ 11	CONNECT O DOADD							1-124-902-00		0. 47uF	20%	50V
T	1-042-004-11	CONNECT-2 BOARD	,						1-124-902-00		0. 47uF	20%	50V
		*****							1-124-903-11		1uF	20%	50V
		< CONNECTOTR >							1-124-477-11		47uF	20%	25V
		COMMEDITIE >						0432	1-124-477-11	ELECI	47uF	20%	25V
CJ801	1-562-087-00	SOCKET, CONNECT	OR 4P					C453	1-124-477-11	ELECT	47uF	20%	25V
									1-124-902-00		0. 47uF	20%	50V
								C461	1-130-489-00		0. 033uF	5%	50V
******	*********	*******	*****	*****	*****	**		C462	1-136-167-00	FILM	0. 15uF	5%	50V
								C463	1-130-481-00	NYLAR	0.0068uF	5%	50V
*	A-4347-048-A	DISPLAY BOARD,	COMPLE	TE									
		*********	*****	**				C464	1-130-489-00	MYLAR	0. 033uF	5%	50V
								C465	1-124-927-11	ELECT	4. 7uF	20%	100V
		HOLDER, FUSE						C466	1-162-215-31	CERAMIC	47PF	5%	50V
*	4-921-941-01							C467	1-124-927-11	ELECT	4. 7uF	20%	100V
*	4-943-107-01	HOLDER (FL TUBE)					C471	1-124-902-00	ELECT	0. 47uF	20%	50V
		< CAPACITOR >						C472	1-124-902-00	ELECT	0. 47uF	20%	50V
C101	1-164-097-11	CERAMIC	U USS	u r		50V				/ COMMINGMOME .			
C102	1-164-097-11		0. 022			50V				< CONNECTOTR >			
C103	1-124-903-11		1uF	u.	20%	50V	٠	C [101	1_565_490_11	CONNECTOR, BOAL	מתומת מד תם	4D	
C104	1-124-907-11		10uF		20%	50V	•			SOCKET, CONNEC		ŧľ.	
C111	1-124-925-11		2. 2uF		20%	100V				SOCKET, CONNEC			
			Dui		2010		*			SOCKET, CONNEC			
										SOCKET, CONNEC			
							1 "	20100	1 000 024 11	SOUREI, CONNEC	IVA OF		

TA-AV421 DISPLAY

													DISPLAT
Ref. No	. Part No.	Descrip	<u>otion</u>			Remarks	Ref. No.	Part No.	Des	scription			Remarks
		< DIODE >					R111	1-249-437-11	CARBON	47K	5%	1/4W	
							R113	1-249-437-11	CARBON	47K	5%	1/4W	
D101	8-719-985-53	DIODE HZS4	1ALL				R114	1-249-437-11		47K	5%	1/4W	
D102	8-719-987-63		148N				R115	1-249-425-11		4. 7K		1/4W	
D103	8-719-987-63	DIODE 1N41	148M				R121	1-249-437-11	CARBON	47K	5%	1/4W	
D104	8-719-987-63											-,	
D105	8-719-987-63						R122	1-249-437-11	CARBON	47K	5%	1/4W	
							R123	1-249-437-11		47K	5%	1/4W	
D106	8-719-987-63	DIODE 1N41	48M				R124	1-249-437-11		47K	5%	1/4W	
D107	8-719-987-63						R125	1-249-437-11		47K	5%	1/4W	
D111	8-719-987-63						R126	1-249-437-11		47K	5%	1/4W	
D112	8-719-014-48		-4. 7B									-,	
D113	8-719-987-63						R127	1-249-437-11	CARBON	47K	5%	1/4W	
	- 1-1						R128	1-249-437-11		47K	5%	1/4W	
		< FILTER >				j		1-249-437-11		47K	5%	1/4W	
							R131	1-249-411-11		330	5%	1/4W	
FL101	1-519-663-11	INDICATOR TO	IBE. FLUO!	RESCEN	Т	İ	R132	1-249-411-11		330	5%	1/4W	
10101	1 010 000 11	111011111111111111111111111111111111111	, 1 Bool	il Dodi	•		KIOZ	2 240 411 11	Onnbon	000	070	1/ 1/1	
		< IC >					R133	1-249-411-11	CARRON	330	5%	1/4W	
		. 20 /						1-249-411-11		330	5%	1/4W	
TC101	8-759-062-41	IC uPD7520)6GF-722-3	BRE				1-249-411-11		330	5%	1/4W	
	8-749-920-83			JDD			R136	1-249-425-11		4. 7K		1/4W	
	8-759-634-50						R137	1-249-425-11		4. 7K		1/4W	
10401	0 100 004 00	10 MODIONE	'			İ	KIOI	1 240 420 11	CARDON	4. III	J /6	1/411	
		< TRANSISTOR	2.5				R138	1-249-425-11	CARRON	4. 7K	5%	1/4W	
		· Immorbion				į		1-249-425-11		4. 7K		1/4W	
Q101	8-729-119-78	TRANSISTOR	2SC2785-	-HFF		İ		1-249-425-11		4. 7K		1/4W	
Q103	8-729-900-63		DTA124ES			į	R141	1-249-429-11			5%	1/4W	
Q104	8-729-900-36		DTC124ES					1-249-429-11		10K	5%	1/4W	
Q105	8-729-900-36		DTC124ES			į	KITA	1 240 420 11	ONROON	IVN	J /0	1/411	
Q106	8-729-900-63		DTA124ES				R143	1-249-417-11	CADDON	1 K	5%	1/4W	
4100	0 120 000 00	TAMOIDION	DIMILITER	,				1-249-405-11		100	5%	1/4W	
Q110	8-729-900-36	TRANSISTOR	DTC124ES					1-249-437-11		47K	5%	1/4W	
Q111	8-729-900-63		DTA124ES					1-249-429-11		10K	5%	1/4W	
Q112	8-729-900-63		DTA124ES			-		1-247-903-00		1 M	5%	1/4W	
Q431	8-729-224-61		2SK246-Y				KITO	1 247 000 00	ONKDON	114	0.70	1/41	
Q432	8-729-119-78		2SC2785-				R149	1-249-417-11	CARRON	1K	5%	1/4W	
4102	0 120 110 10	TRANSISTOR	2002100	111 13				1-249-385-11		2. 2	5%	1/6W	
Q433	8-729-141-30	TRANSISTOR	2SC3623A	1-I.K		1		1-249-385-11		2. 2	5%	1/6W	
Q461	8-729-224-61		2SK246-Y					1-249-405-11		100	5%	1/4W	
Q462	8-729-119-78		2SC2785-					1-249-405-11		100	5%	1/4W	
Q463	8-729-141-30		2SC3623A					1 240 400 11	Omidon	100	0,0	1/ 411	
4	0 120 212 00		2000000				R161	1-249-437-11	CARRON	47K	5%	1/4W	
		< RESISTOR >						1-249-437-11		47K		1/4W	
								1-249-417-11		1K	5%	1/4W	
R101	1-249-437-11	CARBON	47K	5%	1/4W			1-247-887-00		220K		1/4W	
R102	1-249-437-11		47K	5%	1/4W			1-249-429-11		10K		1/4W	
R103	1-249-437-11		47K	5%	1/4W		N402	1 240 420 11	CARDON	IVA	J/s	1/4#	
R104	1-249-437-11		47K	5%	1/4W		R433	1-249-421-11	CADRON	2 2K	E9/	1/4W	
R104	1-249-437-11		47K	5%	1/4W			1-247-887-00		2. 2K 220K		1/4W	
1,100	7 110 401 TT	CHILDON	-\$11Z	0,0	1/ 111			1-247-887-00		6. 8K		1/4W	
R106	1-249-437-11	CARBON	47K	5%	1/4W			1-249-438-11		5. or 56K		1/4W	
R107	1-249-437-11		47K	5% 5%	1/4W			1-249-441-11		100K		1/4W	
	1-249-437-11		47K	5%	1/4W		1446	- 4-10 -1-11	OUVDON	TOOV	U/O	1/47	
R109	1-249-437-11		47K	5%	1/4W		R443	1-247-903-00	CARRON	1 M	5%	1/4W	
R110	1-249-437-11		47K	5%	1/4W			1-247-903-00		560	5%	1/4W	
	- 110 A01 II	OIMDON	-7 1 II	U /0	±/ ±11			1-249-414-11		47K	5% 5%	1/4W	
								1-249-437-11		5. 6K		1/4W	
								1-249-426-11		3. or 330	5%	1/4W	
							17.44	T 740 411_11	OUITDOM	330	J /0	1/41	

DISPLAY F	USE IC MAIN		·	
Ref. No. Part No.	Description	Remarks	Ref. No. Part No. Description Rei	marks
R806 1-249-389-1		1/4W	* 1-642-693-11 VOL BOARD	iidi ka
R807 1-249-409-1		1/4W	*********	
R808 1-249-428-1		1/4W		
▲R809 1-249-393-1	1 CARBON 10 5%	1/4W	< CAPACITOR >	
R810 1-249-435-1	1 CARBON 33K 5%	1/4W		
	< RELAY >		C421 1-164-097-11 CERANIC 0.022uF 50V < CONNECTOR >	
RY801 1-515-790-1	1 RELAY		* CJ421 1-568-828-11 SOCKET, CONNECTOR 9P	
************	*************	******	< VARIABLE RESISTOR >	
* 1-642-690-1	1 SP SW BOARD ********		RV405 1-241-816-11 RES, VAR, CARBON 100KX4 (MASTER VOLUME)	
	< CONNECTOR >		***************************************	
* CP702 1-564-778-1	1 PLUG, CONNECTOR (2.5MM) 4P		MISCELLANEOUS ************************************	
	< JACK >		11 1-575-666-11 WIRE, FLAT TYPE (5 CORE)	
			14 1-690-114-11 WIRE, FLAT TYPE (7 CORE)	
J701 1-563-347-1	1 JACK, LARGE TYPE		15 1-590-487-11 WIRE, FLAT TYPE (17 CORE)	
			59 1-590-241-11 WIRE, FLAT TYPE (7 CORE)	
	< RESISTOR >		8 1-690-588-31 WIRE, FLAT TYPE (9 CORE)	
△R733 1-216-431-1	1 METAL OXIDE 560 5%	1W F	△CNP901 1-551-478-00 CORD, POWER	
⚠ R783 1-216-431-1	1 METAL OXIDE 560 5%	1W F	FL101 1-519-663-11 INDICATOR TUBE, FLUORESCENT	
			△T901 1-450-806-11 TRANSFORMER, POWER	
	< SWITCH >			
S701 1-572-812 - 1	1 SWITCH, ROTARY SLIDE (SPEAK	FRS)	***************************************	
0.01 1 0.0 010 1	z swiion, norma suruu (oruma	ino)	ACCESSORIES & PACKING MATERIALS	
*************	******************	******	***************************************	
* 1-642-691-1	1 SP TM BOARD		1-693-023-11 COMMANDER (STANDARD) (RM-U521)	
	*******		3-707-584-31 COVER, BATTERY	
	/ TEDMINAL >		3-754-877-21 MANUAL, INSTRUCTION (ENGLISH)	
	< TERMINAL >		* 4-949-866-02 INDIVIDUAL CARTON * 4-949-872-01 CUSHION	
TM701 1-537-341-1	1 TERMINAL BOARD (8P SP) (FRO	NT SPEAKER)		
************	**********	*****	***************************************	
* 1-642-692-1	1 SURR SP BOARD		HADDWADE LICT	
* 1-042-092-1	**********		HARDWARE LIST	
	< CONNECTOR >		#1 7-682-548-04 SCREW +BYTT 3X8 (S) #2 7-682-561-04 SCREW +BYTT 4X8 (S)	
* CP701 1-506-509-1	1 PIN, CONNECTOR 4P		#3 7-682-950-01 SCREW +PSW 3X12	
	-, 		#4 7-682-949-01 SCREW +PSW 3X10	
	< TERMINAL >		#5 7-682-548-09 SCREW +B 3X8	
TM702 1-537-265-3	1 TERMINAL BOARD (REAR SPEAKE	R)	#6 7-685-646-79 SCREW +BVTP 3X8 TYPE2 N-S	
*******	*********	*****		

Note:

The components identified by mark \(\frac{\Lambda}{\Lambda}\) or dotted line with mark \(\frac{\Lambda}{\Lambda}\) are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque A sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

											MAIN
Ref. No.	Part No.	Description	<u>n</u>		Remarks	Ref. No.	Part No.	<u>Descripti</u>	<u>on</u>		Remarks
C342	1-102-127-00	CERAMIC	6800PF	10%	50V	C706	1-162-205-31	CERAMIC	18PF	5%	50V
C343	1-162-291-31		560PF	10%	50V	C707	1-161-959-00		22PF	10%	500V
C344	1-124-907-11		10uF	20%	50V	C708	1-124-477-11		47uF	20%	25V
C345	1-124-907-11		10uF	20%	50V	C709	1-161-959-00		22PF	10%	500V
C346	1-124-907-11	ELECT	10uF	20%	50V	C710	1-136-165-00	FILM	0. 1uF	5%	50V
C348	1-162-292-31	CERAMIC	680PF	10%	50V	C711	1-130-487-00	MYLAR	0. 022uF	5%	50V (US)
C349	1-136-167-00		0. 15uF	5%	50V	C711	1-130-491-00		0. 047uF	5%	50V (Canadian)
C350	1-162-284-31	CERAMIC	150PF	10%	50V	C712	1-130-491-00	MYLAR	0. 047uF	5%	50V (Canadian)
C351	1-130-487-00	MYLAR	0. 022uF	5%	50V	C713	1-164-097-11	CERAMIC	0.022uF		50V
C352	1-162-294-31	CERAMIC	0.001uF	10%	50V	C714	1-124-477-11	ELECT	47uF	20%	25V
C353	1-124-927-11	DI DOT	4. 7uF	20%	100V	C715	1-126-933-11	DI DOT	100uF	20%	16V
C354	1-136-169-00		4. 7ur 0. 22uF	20% 5%	50V	C715	1-124-907-11		10ur 10uF	20%	50V
C355	1-130-109-00		0. 22ur 47uF	20%	25V	C717	1-124-907-11		47uF	20%	25V
C358	1-124-477-11		10uF	20%	50V	C721	1-102-125-00		470F 4700PF	10%	50V
C384	1-124-907-11		10ur 10uF	20%	50V 50V	C721	1-164-097-11		0.022uF	10%	50V
U304	1-124-907-11	ELECI	lvur	20%	50¥	0122	1-104-097-11	CERAMIC	0. 022ur		304
C386	1-124-907-11	ELECT	10uF	20%	50 V	C751	1-124-927-11	ELECT	4. 7uF	20%	100V
C391	1-162-215-31	CERAMIC	47PF	5%	50V	C752	1-162-286-31	CERAMIC	220PF	10%	50V
C392	1-162-215-31	CERAMIC	47PF	5%	50V	C753	1-124-477-11	ELECT	47uF	20%	25V
C393	1-124-907-11	ELECT	10uF	20%	50V	C754	1-124-477-11	ELECT	47uF	20%	25V
C396	1-162-215-31	CERAMIC	47PF	5%	50V	C755	1-162-292-31	CERAMIC	680PF	10%	50V
C397	1-162-215-31	CERANIC	47PF	5%	50V	C756	1-162-205-31	CERANIC	18PF	5%	50V
C398	1-124-907-11		10uF	20%	50V	C757	1-161-959-00		22PF	10%	500V
C401	1-124-927-11		4. 7uF	20%	100V	C758	1-124-477-11		47uF	20%	25V
C402	1-124-927-11		4. 7uF	20%	100V	C759	1-161-959-00		22PF	10%	500V
C403	1-124-927-11		4. 7uF	20%	100V	C760	1-136-165-00		0. 1uF	5%	50V
C404	1-124-927-11		4. 7uF	20%	100V	C761	1-130-487-00	MYLAR	0.022uF	5%	50V (US)
C405	1-124-903-11		1uF	20%	50V	C761	1-130-491-00	MYLAR	0. 047uF	5%	50V (Canadian)
C508	1-162-282-31		100PF	10%	50V	C762	1-130-491-00		0. 047uF	5%	50V (Canadian)
C509	1-124-927-11		4. 7uF	20%	100V	C951	1-106-367-00		0. 01uF	5%	200V
C510	1-162-282-31	CERAMIC	100PF	10%	50V	C952	1-106-367-00	MYLAR	0. 01uF	5%	200V
C511	1-124-477-11	ELECT	47uF	20%	25V	C953	1-125-749-11	ELECT	10000uF	20%	63V
C512	1-102-126-00	CERANIC	0.0056uF	10%	50V	C954	1-125-749-11	ELECT	10000uF	20%	63V
C513	1-102-119-00	CERAMIC	1500PF	10%	50V	C955	1-124-563-11	ELECT	2200uF	20%	25V
C515	1-124-903-11	ELECT	1uF	20%	50V	C956	1-124-563-11	ELECT	2200uF	20%	25V
C516	1-124-477-11	ELECT	47uF	20%	25V	C957	1-164-097-11	CERAMIC	0. 022uF		50V
C517	1-124-907-11	ELECT	10uF	20%	50V	C958	1-164-097-11	CERANIC	0. 022uF		50V
C518	1-162-294-31		0. 001uF	10%	50V	C959	1-124-563-11		2200uF	20%	25V
C558	1-162-282-31		100PF	10%	50V	C960	1-124-480-11		470uF	20%	25V
C559	1-124-927-11	ELECT	4. 7uF	20%	100V	C963	1-124-907-11		10uF	20%	50V
C560	1-162-282-31	CERAMIC	100PF	10%	50V	C964	1-124-907-11		10uF	20%	50V
C561	1-124-477-11		47uF	20%	25V	C965	1-124-477-11		47uF	20%	25V
C562	1-102-126-00		0.0056uF	10%	50V	C966	1-126-925-11		470uF	20%	10V
C563	1-102-119-00		1500PF	10%	50V	C967	1-124-477-11		47uF	20%	25V
C565	1-124-903-11		1uF	20%	50V	C968	1-124-477-11		47uF	20%	25V
C566	1-124-477-11	DLEU1	47uF	20%	25V	C969	1-124-477-11	ELEC!	47uF	20%	25V
C701	1-124-927-11	ELECT	4. 7uF	20%	100V	C972	1-124-477-11	ELECT	47uF	20%	25V
C702	1-162-286-31		220PF	10%	50V	C973	1-124-903-11		1uF	20%	50V
C703	1-124-477-11		47uF	20%	25V	C974	1-124-903-11	ELECT	1uF	20%	50V
C704	1-124-477-11		47uF	20%	25V						
C705	1-162-292-31	CERAMIC	680PF	10%	50V						

IC952 8-759-604-35 IC

IC954 8-759-604-45 IC

IC955 8-759-604-44 IC

M5F78M05L

M5F79M12L

M5F79M10

MAIN Ref. No. Ref. No. Part No. Description Part No. Description Remarks Remarks < CONNECTOR > < COIL > * CJ401 1-568-828-11 SOCKET, CONNECTOR 9P L301 1-410-521-11 INDUCTOR 100nH * CJ402 1-568-836-11 SOCKET, CONNECTOR 17P 1-420-872-00 COIL, AIR CORE 1.751 1-420-872-00 COIL, AIR CORE CJ501 1-580-826-11 JACK, PIN 6P (PHONO/CD/VIDEO IN) < TRANSISTOR > CJ503 1-565-949-11 SOCKET, CONNECTOR 9P (SYSTEM CONTROL 3) CJ504 1-565-949-11 SOCKET, CONNECTOR 9P (SYSTEM CONTROL 2) Q301 8-729-141-30 TRANSISTOR 2SC3623A-LK * CJ701 1-568-826-11 SOCKET, CONNECTOR 7P 0302 8-729-900-36 TRANSISTOR DTC124FS CP502 1-691-637-11 PIN, CONNECTOR 9P (SYSTEM CONTROL 1) 0303 8-729-900-36 TRANSISTOR DTC124FS 0304 8-729-900-63 TRANSISTOR DTA124ES < DIODE > 0305 8-729-140-98 TRANSISTOR 2SD773 D701 8-719-933-41 DIODE HZS6C3L 0401 8-729-141-30 TRANSISTOR 2SC3623A-LK D702 8-719-815-85 DIODE 1S1585 0701 8-729-620-18 TRANSISTOR 2SA979-FG D703 8-719-815-85 DIODE 151585 0702 2SAGRR-PARARA 8-729-140-82 TRANSISTOR D704 8-719-815-85 DIODE 1S1585 2SC2785-HFE 0703 8-729-119-78 TRANSISTOR D705 8-719-987-63 DIODE 1N4148M 0704 8-729-119-78 TRANSISTOR 2SC2785-HFE D706 8-719-987-63 DIODE 1N4148M 8-729-141-06 TRANSISTOR 2SA1142-QPE D707 8-719-987-63 DIODE 1 N 4 1 4 8 M 0706 8-729-209-15 TRANSISTOR 2SD2012 8-719-933-41 DIODE H7S6C3L D751 0707 8-729-141-05 TRANSISTOR 2SC2682-OPE D752 8-719-815-85 DIODE 1S1585 0708 8-729-119-78 TRANSISTOR 2SC2785-HFE D753 8-719-815-85 DIODE 1S1585 Q709 8-729-119-76 TRANSISTOR 2SA1175-HFE D754 8-719-815-85 DIODE 1S1585 8-729-141-46 TRANSISTOR 0710 2SC4431-LK D951 8-719-302-38 DIODE RBV-602-01 0711 8-729-141-37 TRANSISTOR 2SA1684-LK RBA-402 D952 8-719-312-09 DIODE 0712 8-729-320-83 TRANSISTOR 2SC3855-0Y D953 11ES2 8-719-200-82 DIODE 0713 8-729-320-86 TRANSISTOR 2SA1491-0V D954 8-719-200-82 DIODE 11ES2 0714 8-729-178-42 TRANSISTOR 2SC2784-F D955 8-719-200-82 DIODE 11ES2 8-729-119-78 TRANSISTOR 2SC2785-HFE Q716 D956 8-719-200-82 DIODE 11ES2 0718 8-729-178-42 TRANSISTOR 2SC2784-F D957 8-719-002-48 DIODE 1171 - 27H 0719 8-729-900-63 TRANSISTOR DTA124ES D959 8-719-987-63 DIODE 1N4148W 0720 8-729-900-36 TRANSISTOR DTC124FS 8-729-900-63 TRANSISTOR 0721 DTA124ES < IC > 8-729-620-18 TRANSISTOR IC301 8-759-634-50 IC M5218AL 8-729-140-82 TRANSISTOR 2SA988-PAFAEA IC302 8-759-801-01 IC LC4966 0753 8-729-119-78 TRANSISTOR 2SC2785-HFE IC304 8-759-823-63 IC LV1001N 0754 8-729-119-78 TRANSISTOR 2SC2785-HFE IC305 8-759-821-13 IC LM3364K-15 0755 8-729-141-06 TRANSISTOR 2SA1142-0PE IC306 8-759-634-50 IC M5218AL 8-729-209-15 TRANSISTOR 2SD2012 IC307 8-759-634-50 IC M5218AI 8-729-141-05 TRANSISTOR 2SC2682-0PE IC401 8-759-820-11 IC LC7535 0758 8-729-119-78 TRANSISTOR 2SC2785-HFE IC402 8-759-634-51 IC M5218AP 0759 8-729-119-76 TRANSISTOR 2SA1175-HFE IC403 8-759-820-62 IC LR1639 9760 8-729-141-46 TRANSISTOR 2SC4431-LK IC501 8-759-634-51 IC M5218AP 8-729-141-37 TRANSISTOR 0761 2SA1684-LK IC502 8-759-805-14 IC LC7822 8-729-320-83 TRANSISTOR 2SC3855-0Y IC701 8-759-111-68 IC uPC1237HA (HEADPHONES 8-729-320-86 TRANSISTOR 2SA1491-0Y IC951 8-759-604-39 IC AN6291 0764 8-729-178-42 TRANSISTOR 2SC2784-F

Q951 8-729-141-83 TRANSISTOR

Q953 8-729-119-78 TRANSISTOR 2SC2785-HFE

2SB1094-LK

MAIN

Part No. Part No.												MAIN
1-24187-10 CARBON 2200 St 1/4W	Ref. N	lo. Part No.	<u>Description</u>		<u>Remarks</u>	Ref. No	. Part No.	Descript	ion			<u>Remarks</u>
1-247-1837-10 CABSON		< RES	SISTOR >			R416	1-249-417-11	CARBON	1 K	5%	1/4W	
1-247-887-96 CABBON 2201 58						R501					•	
1-247-897-90 CARRON			N 220K	5% 1/4W		R502	1-249-427-11	CARBON	6.8K	5%		
1-2487-9C CLABON 2.001				5% 1/4W		R504	1-249-417-11	CARBON	1K	5%	1/4W	
1.749-42-11 CABBON						R505	1-249-417-11	CARBON	1 K	5%	1/4W	
1-249-435-11 CARBON				•								
1-249-443-1 CARBON 1204 55 1/47 1/48 1-249-41-1 CARBON 1007 55 1/47 1/48 1/49 1	K305	1-249-423-11 CARBO	N 3.3K	5% 1/4W		R506	1-249-417-11	CARBON	1K	5%	1/4W	
1-249-41-11 CARBON	Dane	1 940 499 11 04000	N OOK	F0//					1 K	5%	1/4W	
1-249-417-11 CARBOON											1/4₩	
1-249-417-11 CARBON												
REGIN 1-247-887-00 CARBON 2008 SX 1/4W REGIN 1-249-487-11 CARBON 1008 SX 1/4W 1249-487-00 CARBON 2008 SX 1/4W 8513 1-249-487-11 CARBON 1009 SX 1/4W 1249-487-00 CARBON 2008 SX 1/4W 8515 1-249-481-11 CARBON 4.7% SX 1/4W 1249-487-11 CARBON 4.7% SX 1/4W				•		Kall	1-249-417-11	CARBON	1K	5%	1/4W	
Sail						DE19	1 947 907 11	CARRON	F 0 0 W	==/	4 / 4 777	
1-249-437-10 CARBON 220K SX 1/4W 8515 1-249-421-11 CARBON 10K SK 1/4W 8515 1-249-437-11 CARBON 270K SX 1/4W 8515 1-249-437-11 CARBON 4.7K SX 1/4W 8515 1-249-437-11 CARBON 4.7K SX 1/4W 8515 1-249-437-11 CARBON 4.7K SX 1/4W 8515 1-249-437-11 CARBON 4.7K SX 1/4W 8515 1-249-437-11 CARBON 330 SX 1/4W 8520 1-244-435-11 CARBON 4.7K SX 1/4W 8555 1-249-437-11 CARBON 1K SX 1/4W 8555 1-249-437-11 CARBON 1K SX 1/4W 8555 1-249-437-11 CARBON 1K SX 1/4W 8555 1-249-437-11 CARBON 1K SX 1/4W 8555 1-249-437-11 CARBON 1K SX 1/4W 8555 1-249-437-11 CARBON 1K SX 1/4W 8555 1-249-437-11 CARBON 1K SX 1/4W 8555 1-249-437-11 CARBON 1K SX 1/4W 8555 1-249-437-11 CARBON 1K SX 1/4W 8550 1-249-437-11 CARBON 1K SX 1/4W 8551 1-249-437-11		1 211 001 00 OMDO	. 220h	J/411								
1-247-887-00 CARBON 220K 5K 1/4F 8515 1-249-497-11 CARBON 270 5K 1/4F 8518 1-249-427-11 CARBON 4.7K 5K 1/4F 8518 1-249-427-11 CARBON 4.7K 5K 1/4F 8518 1-249-427-11 CARBON 4.7K 5K 1/4F 8518 1-249-427-11 CARBON 5.0K 5K 5K 1/4F 8519 1-249-427-11 CARBON 5.0K 5K 1/4F 8510 1-249-427-11 CARBON 5.0K 5K 1/4F 8710 1-24	R312	1-247-887-00 CARBO	N 220K	5% 1/4W								
1-247-887-00 CABBON												
1-249-417-11 CABBON												
R520	R319	1-249-417-11 CARBO				KUIU	1 240 420 11	CARDON	4. /h	3/6	1/47	
R522 1-249-425-11 CARBON	R320	1-249-417-11 CARBO		· .		R551	1-249-411-11	CARRON	330	5%	1 //W	
1-249-425-11 CABBON				-,								
1-249-439-11 CARBON	R321	1-249-425-11 CARBOI	N 4.7K	5% 1/4W								
1.247 - 90.9	R322	1-249-430-11 CARBON	N 12K	5% 1/4W								
1-249-439-11 CARBON	R323	1-247-903-00 CARBO	N 1M	5% 1/4W								
R526 1-249-429-11 CARBON 10K 5K 1/4W R550 1-249-441-11 CARBON 10K 5K 1/4W R532 1-249-413-11 CARBON 470 5K 1/4W R550 1-249-441-11 CARBON 5K 1/4W R550 1-249-441-11 CARBON 5K 1/4W R550 1-249-428-11 CARBON 8.2 5K 1/4W R550 1-249-4428-11 CARBON 8.2 5K 1/4W R550 1-249-428-11 CARBON 8.2 5K 1/4W R550 1-249-428-11 CARBON 8.2 5K 1/4W R550 1-249-431-11 CARBON 47K 5K 1/4W R550 1-249-431-11 CARBON 10K 5K 1/4W R550 1-249-431-11 CARBON 10K 5K 1/4W R550 1-249-431-11 CARBON 10K 5K 1/4W R550 1-249-431-11 CARBON 10K 5K 1/4W R550 1-249-431-11 CARBON 10K 5K 1/4W R531 1-249-431-11 CARBON 39K 5K 1/4W R505 1-249-431-11 CARBON 10K 5K 1/4W R531 1-249-431-11 CARBON 20K 5K 1/4W R531 1-249-421-11 CARBON 10K 5K 1/4W R531 1-249-421-11 CARBON 10K 5K 1/4W R531 1-249-421-11 CARBON 10K 5K 1/4W R531 1-249-429-11 CARBON 10K 5K 1/4W R531 1-249-397-11 CARBON 20 5K 1/4W R531 1-249-397-11 CARBON 10K 5K 1/4W R531 1-249-397-11 CARBON 10K 5K 1/4W R531 1-249-397-11 CARBON 10K 5K 1/4W R531 1-249-397-11 CARBON 10K 5K 1/4W R531 1-249-397-11 CARBON 10K 5K 1/4W R531 1-249-397-11 C	R324	1-249-437-11 CARBON	N 47K	5% 1/4W						-	-, -,	
R559 1-249-429-11 CARBON	R325	1-249-423-11 CARBON	N 3.3K	5% 1/4W		R557	1-249-417-11	CARBON	1 K	5%	1/4W	
R321 1-249-413-11 CARBON						R559	1-249-441-11	CARBON	100K	5%		
R328 1-249-428-11 CARBON 8. 2K 5X 1/4W R562 1-247-897-11 CARBON 560K 5X 1/4W R339 1-249-428-11 CARBON 15K 5X 1/4W R563 1-249-437-11 CARBON 10K 5X 1/4W R563 1-249-437-11 CARBON 10K 5X 1/4W R331 1-249-438-11 CARBON 220K 5X 1/4W R701 1-249-411-11 CARBON 220K 5X 1/4W R331 1-247-887-00 CARBON 220K 5X 1/4W R702 1-249-411-11 CARBON 33K 5X 1/4W R331 1-249-427-11 CARBON 220K 5X 1/4W R702 1-249-421-11 CARBON 33C 5X 1/4W R335 1-249-427-11 CARBON 220K 5X 1/4W R702 1-249-421-11 CARBON 33C 5X 1/4W R351 1-249-427-11 CARBON 2.0K 5X 1/4W R703 1-249-421-11 CARBON 33C 5X 1/4W R353 1-247-887-00 CARBON 220K 5X 1/4W R703 1-249-421-11 CARBON 2.0K 5X 1/4W R353 1-247-827-11 CARBON 10K 5X 1/4W R703 1-249-428-11 CARBON 2.0K 5X 1/4W R353 1-247-429-11 CARBON 10K 5X 1/4W R703 1-249-428-11 CARBON 2.0K 5X 1/4W R355 1-249-429-11 CARBON 10K 5X 1/4W R703 1-249-428-11 CARBON 4. 7K 5X 1/4W R358 1-249-429-11 CARBON 10K 5X 1/4W R703 1-249-429-11 CARBON 33C 5X 1/4W R703 1-249-429-11 CARBON 33C 5X 1/4W R358 1-249-429-11 CARBON 10K 5X 1/4W R703 1-249-429-11 CARBON 220 5X 1/4W R358 1-249-429-11 CARBON 10K 5X 1/4W R703 1-249-429-11 CARBON 220 5X 1/4W R393 1-249-429-11 CARBON 10K 5X 1/4W R712 1-249-409-11 CARBON 220 5X 1/4W R393 1-249-429-11 CARBON 10K 5X 1/4W R712 1-249-409-11 CARBON 33C 5X 1/4W R393 1-249-429-11 CARBON 10K 5X 1/4W R393 1-249-429-11 CARBON 10K 5X 1/4W R713 1-249-409-11 CARBON 220 5X 1/4W R393 1-249-429-11 CARBON 10K 5X 1/4W R393 1	R326	1-249-429-11 CARBON	10K	5% 1/4W		R560	1-249-441-11	CARBON	100K	5%	1/4W	
R329 1-249-428-11 CARBON S. ZK 5% 1/4W R563 1-249-437-11 CARBON 47K 5% 1/4W R563 1-249-437-11 CARBON 47K 5% 1/4W R5653 1-249-437-11 CARBON 47K 5% 1/4W R5653 1-249-437-11 CARBON 220 5% 1/4W R5653 1-249-438-11 CARBON 220 5% 1/4W R5655 1-249-408-11 CARBON 220 5% 1/4W R701 1-249-417-11 CARBON 1K 5% 1/4W R702 1-249-417-11 CARBON 1K 5% 1/4W R703 1-249-437-11 CARBON 220 5% 1/4W R703 1-249-437-11 CARBON 33K 5% 1/4W R703 1-249-437-11 CARBON 33K 5% 1/4W R703 1-249-437-11 CARBON 33K 5% 1/4W R703 1-249-437-11 CARBON 330 5% 1/4W R703 1-249-427-11 CARBON 2.2K 5% 1/4W R703 1-249-427-11 CARBON 2.2K 5% 1/4W R703 1-249-427-11 CARBON 2.2K 5% 1/4W R705 1-249-427-11 CARBON 2.2K 5% 1/4W R705 1-249-428-11 CARBON 2.2K 5% 1/4W R705 1-249-428-11 CARBON 2.2K 5% 1/4W R707 1-249-425-11 CARBON 33K 5% 1/4W R708 1-249-429-11 CARBON 2.2K 5% 1/4W R709 1-249-427-11 CARBON 33K 5% 1/4W R709 1-249-427-11 CARBON 2.2K 5% 1/4W R709 1-249-427-11 CARBON 10K 5% 1/4W R7				5% 1/4W		R561	1-249-417-11	CARBON	1K	5%	1/4W	
R530 1-249-431-11 CARBON 15K 5K 1/4W R565 1-249-441-11 CARBON 10K 5K 1/4W R565 1-249-441-11 CARBON 10K 5K 1/4W R565 1-249-440-11 CARBON 10K 5K 1/4W R565 1-249-440-11 CARBON 10K 5K 1/4W R701 1-249-410-11 CARBON 1K 5K 1/4W R702 1-249-430-11 CARBON 1K 5K 1/4W R703 1-249-437-11 CARBON 1K 5K 1/4W R703 1-249-437-11 CARBON 1K 5K 1/4W R703 1-249-437-11 CARBON 20K 5K 1/4W R703 1-249-437-11 CARBON 20K 5K 1/4W R703 1-249-431-11 CARBON 20K 5K 1/4W R703 1-249-432-11 CARBON 20K 5K 1/4W R704 1-249-432-11 CARBON 20K 5K 1/4W R705 1-249-434-11 CARBON 20K 5K 1/4W R705 1-249-432-11 CARBON 20K 5K 1/4W R705 1-249-429-11 CARBON 20K 5K 1/4W R705 1-249-429-11 CARBON 20K 5K 1/4W R705 1-249-429-11 CARBON 20K 2				5% 1/4W		R562	1-247-897-11	CARBON	560K	5%	1/4W	
R331 1-249-428-11 CARBON 8.2K 5% 1/4W R565 1-249-428-11 CARBON 10K 5% 1/4W R332 1-249-436-11 CARBON 220K 5% 1/4W R701 1-249-435-11 CARBON 11K 5% 1/4W R334 1-247-887-00 CARBON 220K 5% 1/4W R702 1-249-435-11 CARBON 33K 5% 1/4W R335 1-247-887-00 CARBON 220K 5% 1/4W R703 1-249-435-11 CARBON 330 5% 1/4W R335 1-249-427-11 CARBON 6.8K 5% 1/4W R703 1-249-411-11 CARBON 330 5% 1/4W R335 1-247-887-00 CARBON 220K 5% 1/4W R705 1-249-435-11 CARBON 27K 5% 1/4W R353 1-247-887-00 CARBON 220K 5% 1/4W R705 1-249-435-11 CARBON 27K 5% 1/4W R355 1-249-429-11 CARBON 10K 5% 1/4W R707 1-249-425-11 CARBON 5.6K 5% 1/4W R355 1-249-429-11 CARBON 10K 5% 1/4W R707 1-249-425-11 CARBON 3.8K 5% 1/4W R356 1-249-429-11 CARBON 10K 5% 1/4W R708 1-249-425-11 CARBON 3.8K 5% 1/4W R358 1-249-429-11 CARBON 10K 5% 1/4W R708 1-249-425-11 CARBON 330 5% 1/4W R358 1-249-429-11 CARBON 10K 5% 1/4W R708 1-249-425-11 CARBON 330 5% 1/4W R708 1-249-429-11 CARBON 330 5% 1/4W R710 1-249-429-11 CARBON 330 5% 1/4W R711 1-249-429-11 CARBON 330 5% 1/4W R712 1-249-429-11 CARBON 330 5% 1/4W R713 1-249-429-11 CARBON 330 5% 1/4W R714 1-247-830-11 CARBON 330 5% 1/4W R715 1-249-429-11 CARBON 330 5% 1/4W R715 1-249-												
R332 1-249-428-11 CARBON 8. 2K 5% 1/4W R701 1-249-417-11 CARBON 1K 5% 1/4W R702 1-249-417-11 CARBON 1K 5% 1/4W R703 1-249-427-11 CARBON 220K 5% 1/4W R702 1-249-435-11 CARBON 33K 5% 1/4W R703 1-249-427-11 CARBON 220K 5% 1/4W R703 1-249-427-11 CARBON 2.2K 5% 1/4W R703 1-249-427-11 CARBON 2.2K 5% 1/4W R704 1-249-427-11 CARBON 2.2K 5% 1/4W R705 1-249-428-11 CARBON 2.2K 5% 1/4W R705 1-249-428-11 CARBON 2.7K 5% 1/4W R707 1-249-428-11 CARBON 3.3K 5% 1/4W R707 1-249-428-11 CARBON 3.3K 5% 1/4W R708 1-249-428-11 CARBON 10K 5% 1/4W R708 1-249-428-11 CARBON 3.3K 5% 1/4W R709 1-249-411-11 CARBON 3.3K 5% 1/4W R709 1-249-411-11 CARBON 3.3K 5% 1/4W R708 1-249-429-11 CARBON 10K 5% 1/4W ART10 1-249-409-11 CARBON 2.2C 5% 1/4W R709 1-249-429-11 CARBON 2.2C 5% 1/4W R709 1-249-429-11 CARBON 2.2C 5% 1/4W R712 1-249-409-11 CARBON 2.2C 5% 1/4W R712 1-249-409-11 CARBON 2.2C 5% 1/4W R713 1-249-429-11 CARBON 10K 5% 1/4W R714 1-247-809-00 CARBON 470K 5% 1/4W ART13 1-249-397-11 CARBON 2.2C 5% 1/4W ART13 1-249-397-11 CARBON 2.2C 5% 1/4W R713 1-249-329-11 CARBON 10K 5% 1/4W ART13 1-249-397-11 CARBON 2.2C 5% 1/4W ART14 1-247-809-00 CARBON 10K 5% 1/4W ART15 1-249-397-11 CARBON 2.2C 5% 1/4W ART19 1-249-329-11 CARBON 10K 5% 1/4W ART19 1-249-329-11 CARBON 10C 5% 1/4W ART19 1-249-329-11 CARBON 1.0C 5% 1/4W ART19 1-249-329-11 CARBON 1.0C 5% 1/	K330	1-249-431-11 CARBON	15K	5% 1/4W		R563	1-249-437-11	CARBON	47K	5%	1/4W	
R332 1-249-436-11 CARBON 39K 5% 1/4W R702 1-249-435-11 CARBON 33K 5% 1/4W R334 1-247-887-00 CARBON 220K 5% 1/4W R703 1-249-435-11 CARBON 33K 5% 1/4W R351 1-249-427-11 CARBON 6.8K 5% 1/4W R704 1-249-421-11 CARBON 2.2K 5% 1/4W R351 1-249-427-11 CARBON 6.8K 5% 1/4W R704 1-249-421-11 CARBON 2.7K 5% 1/4W R352 1-249-427-11 CARBON 20K 5% 1/4W R705 1-249-424-11 CARBON 2.7K 5% 1/4W R355 1-249-429-11 CARBON 10K 5% 1/4W R706 1-249-428-11 CARBON 5.6K 5% 1/4W R355 1-249-429-11 CARBON 10K 5% 1/4W R707 1-249-428-11 CARBON 4.7K 5% 1/4W R356 1-249-429-11 CARBON 10K 5% 1/4W R707 1-249-428-11 CARBON 33K 5% 1/4W R356 1-249-429-11 CARBON 10K 5% 1/4W R709 1-249-411-11 CARBON 330 5% 1/4W R358 1-249-429-11 CARBON 10K 5% 1/4W AR710 1-249-409-11 CARBON 220 5% 1/4W R358 1-249-429-11 CARBON 10K 5% 1/4W AR710 1-249-409-11 CARBON 220 5% 1/4W R358 1-249-429-11 CARBON 10K 5% 1/4W R712 1-249-435-11 CARBON 220 5% 1/4W R359 1-249-429-11 CARBON 10K 5% 1/4W R712 1-249-435-11 CARBON 220 5% 1/4W R359 1-249-429-11 CARBON 10K 5% 1/4W R712 1-249-435-11 CARBON 220 5% 1/4W R713 1-249-397-11 CARBON 220 5% 1/4W R713 1-249-397-11 CARBON 20 5% 1/4W R713 1-249-397-11 CARBON 20 5% 1/4W R713 1-249-397-11 CARBON 20 5% 1/4W R714 1-247-839-00 CARBON 10K 5% 1/4W AR713 1-249-397-11 CARBON 10 5% 1/4W R714 1-247-839-31 CARBON 10 5% 1/4W R715 1-249-31 CARBON 10 5% 1/4W AR716 1-249-393-11 CARBON 10 5% 1/4W AR718 1-249-393-11 CARBON 10 5% 1/4W AR719 1-249-429-11 CARBON 10 5% 1/4W AR719 1-249-429-11 CARBON 10 5% 1/4W AR719 1-249-429-11 CARBON 10 5% 1/4W AR720 1-249-429-11 CARBON 10 5% 1/4W AR721 1-249-393-11 CARBON 10 5% 1/4W AR721 1-249-393-11 C	D221	1 940 400 11 04000					1-249-441-11	CARBON	100K	5%	1/4W	
R334 1-247-887-00 CARBON 220K 5% 1/4W R702 1-249-435-11 CARBON 33K 5% 1/4W R355 1-247-887-00 CARBON 220K 5% 1/4W R703 1-249-421-11 CARBON 330 5% 1/4W R704 1-249-427-11 CARBON 6.8K 5% 1/4W R705 1-249-435-11 CARBON 2.2K 5% 1/4W R705 1-249-434-11 CARBON 2.2K 5% 1/4W R706 1-249-434-11 CARBON 2.7K 5% 1/4W R707 1-249-434-11 CARBON 2.7K 5% 1/4W R708 1-249-428-11 CARBON 2.0K 5% 1/4W R707 1-249-435-11 CARBON 2.7K 5% 1/4W R708 1-249-429-11 CARBON 10K 5% 1/4W R707 1-249-425-11 CARBON 4.7K 5% 1/4W R707 1-249-425-11 CARBON 4.7K 5% 1/4W R708 1-249-425-11 CARBON 10K 5% 1/4W R708 1-249-425-11 CARBON 330 5% 1/4W R709 1-249-429-11 CARBON 200 5% 1/4W AR710 1-249-409-11 CARBON 200 5% 1/4W R709 1-249-429-11 CARBON 200 5% 1/4W AR710 1-249-409-11 CARBON 200 5% 1/4W R709 1-249-429-11 CARBON 10K 5% 1/4W AR710 1-249-435-11 CARBON 200 5% 1/4W AR710 1-249-435-11 CARBON 200 5% 1/4W R709 1-249-429-11 CARBON 10K 5% 1/4W AR710 1-249-435-11 CARBON 200 5% 1/4W AR710 1-249-435-11 CARBON 200 5% 1/4W AR710 1-249-435-11 CARBON 200 5% 1/4W AR710 1-249-435-11 CARBON 200 5% 1/4W AR710 1-249-435-11 CARBON 200 5% 1/4W AR710 1-249-435-11 CARBON 200 5% 1/4W AR710 1-249-439-11 CARBON 200 5% 1/4W AR710 1-249-435-11 CARBON 100									220		1/4W	
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R355 1-249-429-11 CARBON 10K 5% 1/4W R707 1-249-425-11 CARBON 4.7K 5% 1/4W R707 1-249-425-11 CARBON 4.7K 5% 1/4W R707 1-249-429-11 CARBON 10K 5% 1/4W R709 1-249-411-11 CARBON 33K 5% 1/4W R709 1-249-411-11 CARBON 33C 5% 1/4W R709 1-249-411-11 CARBON 22C 5% 1/4W AR710 1-249-409-11 CARBON 22C 5% 1/4W AR711 1-249-409-11 CARBON 22C 5% 1/4W R712 1-249-429-11 CARBON 22C 5% 1/4W R712 1-249-429-11 CARBON 22C 5% 1/4W R712 1-249-435-11 CARBON 22C 5% 1/4W R714 1-247-830-11 CARBON 22C 5% 1/4W R714 1-247-830-11 CARBON 22C 5% 1/4W R715 1-249-429-11 CARBON 22C 5% 1/4W AR716 1-249-397-11 CARBON 10C 5% 1/4W AR716 1-249-393-11 CARBON 10C 5% 1/4W AR716 1-249-393-11 CARBON 10C 5% 1/4W AR717 1-249-393-11 CARBON 10C 5% 1/4W AR719 1-249-429-11 CARBON 10C 5% 1/4W AR719 1-249-429-11 CARBON 10C 5% 1/4W AR719 1-249-423-11 R353	1-247-887-00 CARBON									•		
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R709 1-249-411-11 CARBON 330 5% 1/4W R358 1-249-429-11 CARBON 10K 5% 1/4W R381 1-249-429-11 CARBON 10K 5% 1/4W R382 1-249-429-11 CARBON 10K 5% 1/4W R391 1-247-895-00 CARBON 470K 5% 1/4W R392 1-249-429-11 CARBON 10K 5% 1/4W R393 1-249-429-11 CARBON 10K 5% 1/4W R396 1-247-895-00 CARBON 470K 5% 1/4W R397 1-249-429-11 CARBON 10K 5% 1/4W R398 1-249-429-11 CARBON 10K 5% 1/4W R398 1-249-429-11 CARBON 10K 5% 1/4W R398 1-249-429-11 CARBON 10K 5% 1/4W R401 1-247-887-00 CARBON 20K 5% 1/4W R402 1-247-887-00 CARBON 10K 5% 1/4W R403 1-247-883-00 CARBON 10K 5% 1/4W R404 1-247-883-00 CARBON 10K 5% 1/4W R404 1-247-883-00 CARBON 10K 5% 1/4W R405 1-249-429-11 CARBON 10K 5% 1/4W R406 1-249-429-11 CARBON 10K 5% 1/4W R407 1-249-429-11 CARBON 10K 5% 1/4W R408 1-249-429-11 CARBON 10K 5% 1/4W R409 1-249-429-11 CARBON 10K 5% 1/4W R400 1-247-887-00 CARBON 10K 5% 1/4W R400 1-247-887-00 CARBON 20K 5% 1/4W R400 1-249-425-11 CARBON 20K 5% 1/4W R400 1-249-425-11 CARBON 20K 5% 1/4W R400 1-249-425-11 CARBON 20K 5% 1/4W R400 1-249-425-11 CARBON 20K 5% 1/4W R400 1-249-425-11 CARBON 20K 5% 1/4W R400 1-249-425-11 CARBON 20K 5% 1/4W R400 1-249-425-11 CARBON 20K 5% 1/4W R400 1-249-425-11 CARBON 20K 5% 1/4W R400 1-249-425-11 CARBON 20K 5% 1/4W R400 1-249-425-11 CARBON 20K 5% 1/4W R400 1-249-425-11 CARBON 20K 5% 1/4W R400 1-249-425-11 CARBON 20K 5% 1/4W R400 1-24	R356	1-249-429-11 CARBON	10K 5						21 111	070	1/ 1/1	
R709 1-249-411-11 CARBON 330 5% 1/4\frac{1}{4\	R357	1-249-429-11 CARBON	10K 5	% 1/4W		R708	1-249-435-11 (CARBON	33K	5%	1/4W	
R358 1-249-429-11 CARBON 10K 5% 1/4W												
R381 1-249-429-11 CARBON 10K 5% 1/4W R711 1-249-409-11 CARBON 220 5% 1/4W R712 1-249-429-11 CARBON 33K 5% 1/4W R712 1-249-435-11 CARBON 33K 5% 1/4W R712 1-249-435-11 CARBON 33K 5% 1/4W R712 1-249-435-11 CARBON 33K 5% 1/4W R713 1-249-397-11 CARBON 22 5% 1/4W R714 1-247-830-11 CARBON 910 5% 1/4W R714 1-247-830-11 CARBON 910 5% 1/4W R714 1-247-830-11 CARBON 910 5% 1/4W R715 1-249-429-11 CARBON 390 5% 1/4W R715 1-249-429-11 CARBON 390 5% 1/4W R715 1-249-429-11 CARBON 10K 5% 1/4W AR716 1-249-397-11 CARBON 22 5% 1/4W AR716 1-249-397-11 CARBON 22 5% 1/4W R7916 1-249-429-11 CARBON 10K 5% 1/4W AR717 1-249-393-11 CARBON 10 5% 1/4W R7918 1-249-429-11 CARBON 10 5% 1/4W AR717 1-249-393-11 CARBON 10 5% 1/4W AR719 1-249-429-11 CARBON 10 5% 1/4W AR719 1-249-429-11 CARBON 10 5% 1/4W AR719 1-249-429-11 CARBON 10 5% 1/4W AR720 1-249-429-11 CARBON 11K 5% 1/4W AR720 1-249-429-11 CARBON 11K 5% 1/4W AR721 1-249-417-11 CARBON 11K 5% 1/4W AR721 1-249-417-11 CARBON 11K 5% 1/4W AR721 1-249-417-11 CARBON 11K 5% 1/4W AR722 1-249-417-11 CARBON 11K 5% 1/4W AR722 1-249-417-11 CARBON 11K 5% 1/4W AR722 1-249-421-11 CARBON 12C 5% 1/4W AR722 1-249-417-11 CARBON 12C 5% 1/4W AR722 1-249-421-11 R358	1-249-429-11 CARBON	10K 5	% 1/4W									
R382 1-249-429-11 CARBON 10K 5% 1/4W R391 1-247-895-00 CARBON 470K 5% 1/4W R392 1-249-429-11 CARBON 10K 5% 1/4W R393 1-249-429-11 CARBON 10K 5% 1/4W R393 1-249-429-11 CARBON 10K 5% 1/4W R396 1-247-895-00 CARBON 470K 5% 1/4W R397 1-249-429-11 CARBON 10K 5% 1/4W R398 1-249-429-11 CARBON 10K 5% 1/4W R398 1-249-429-11 CARBON 10K 5% 1/4W R398 1-249-429-11 CARBON 10K 5% 1/4W R401 1-247-887-00 CARBON 220K 5% 1/4W R401 1-247-887-00 CARBON 10K 5% 1/4W R402 1-249-429-11 CARBON 10K 5% 1/4W R403 1-249-429-11 CARBON 10K 5% 1/4W R404 1-247-883-00 CARBON 220K 5% 1/4W R405 1-249-425-11 CARBON 220K 5% 1/4W R405 1-249-425-11 CARBON 220K 5% 1/4W R406 1-249-425-11 CARBON 220K 5% 1/4W R407 1-249-425-11 CARBON 220K 5% 1/4W R408 1-249-425-11 CARBON 220K 5% 1/4W R409 1-249-425-11 CARBON 220K 5% 1/4W		1-249-429-11 CARBON	10K 5	% 1/4W		△R711	1-249-409-11 (CARBON				
R392 1-249-429-11 CARBON 10K 5% 1/4W R393 1-249-429-11 CARBON 10K 5% 1/4W R396 1-247-895-00 CARBON 470K 5% 1/4W R397 1-249-429-11 CARBON 10K 5% 1/4W R398 1-249-429-11 CARBON 10K 5% 1/4W R401 1-247-887-00 CARBON 20K 5% 1/4W R402 1-249-429-11 CARBON 10K 5% 1/4W R403 1-249-429-11 CARBON 10K 5% 1/4W R404 1-247-883-00 CARBON 150K 5% 1/4W R405 1-249-425-11 CARBON 20K 5% 1/4W R406 1-249-425-11 CARBON 150K 5% 1/4W R407 1-249-425-11 CARBON 150K 5% 1/4W R408 1-249-425-11 CARBON 150K 5% 1/4W R409 1-249-425-11 CARBON 150K 5% 1/4W R400 1-247-883-00 CARBON 150K 5% 1/4W R401 1-247-883-00 CARBON 150K 5% 1/4W R402 1-249-425-11 CARBON 150K 5% 1/4W R403 1-249-425-11 CARBON 150K 5% 1/4W R404 1-247-887-00 CARBON 220K 5% 1/4W R405 1-249-425-11 CARBON 4. 7K 5% 1/4W R405 1-249-425-11 CARBON 4. 7K 5% 1/4W R405 1-249-425-11 CARBON 4. 7K 5% 1/4W R406 1-249-425-11 CARBON 4. 7K 5% 1/4W R407 1-249-425-11 CARBON 220K 5% 1/4W R408 1-249-425-11 CARBON 220K 5% 1/4W R409 1-249-425-11 CARBON 220K 5% 1/4W R409 1-249-425-11 CARBON 220K 5% 1/4W R400 1-249-425-11 CARBON 220K 5% 1/4W R401 1-249-425-11 CARBON 220K 5% 1/4W R502 1-249-425-11 CARBON 220K 5% 1/4W R503 1-249-425-11 CARBON 220K 5% 1/4W R504 1-249-425-11 CARBON 220K 5% 1/4W R505 1-249-425-11 CARBON 220K 5% 1/4W R506 1-249-425-11 CARBON 220K 5% 1/4W R507 1-249-425-11 CARBON 220K 5% 1/4W R508 1-249-425-11 CARBON 220K 5% 1/4W R509 1-249-425-11 CARBON 220K 5% 1/4W R500 1-249-425-11 CARBON 220K 5% 1/4W		1-249-429-11 CARBON	10K 5	% 1/4W		R712	1-249-435-11 (CARBON	33K	5%	1/4W	
R393 1-249-429-11 CARBON 10K 5% 1/4W R715 1-249-412-11 CARBON 910 5% 1/4W R396 1-247-895-00 CARBON 470K 5% 1/4W AR716 1-249-397-11 CARBON 22 5% 1/4W R397 1-249-429-11 CARBON 10K 5% 1/4W AR717 1-249-393-11 CARBON 10 5% 1/4W R398 1-249-429-11 CARBON 10K 5% 1/4W AR718 1-249-393-11 CARBON 10 5% 1/4W AR719 1-249-423-11 CARBON 3.3K 5% 1/4W AR719 1-249-423-11 CARBON 3.3K 5% 1/4W AR720 1-249-429-11 CARBON 150K 5% 1/4W AR720 1-249-417-11 CARBON 1K 5% 1/4W AR721 1-249-317-11 CARBON 2.2K 5% 1/4W AR721 1-249-317-11 CARBON 2.2K 5% 1/4W AR721 1-249-317-11 CARBON 2.2K 5% 1/4W AR722 1-249-317-11 CARBON 2.2K 5% 1/4W AR722 1-249-317-11 CARBON 2.2K 5% 1/4W AR722 1-249-317-11 CARBON 2.2K 5% 1/4W AR722 1-249-317-11 CARBON 2.2K 5% 1/4W AR722 1-249-317-11 CARBON 2.2K 5% 1/4W AR722 1-249-317-11 CARBON 2.2K 5% 1/4W AR722 1-249-317-11 CARBON 2.2K 5% 1/4W AR722 1-249-327-11 CARBON 2.2K 5% 1/4W AR722 1-249-327-11 CARBON 2.2K 5% 1/4W				% 1/4W								
R393 1-249-429-11 CARBON 10K 5% 1/4W R715 1-249-412-11 CARBON 390 5% 1/4W AR716 1-249-397-11 CARBON 22 5% 1/4W AR717 1-249-397-11 CARBON 10K 5% 1/4W AR717 1-249-393-11 CARBON 10 5% 1/4W AR717 1-249-393-11 CARBON 10 5% 1/4W AR717 1-249-393-11 CARBON 10 5% 1/4W AR718 1-249-393-11 CARBON 10 5% 1/4W AR719 1-249-423-11 CARBON 3.3K 5% 1/4W AR719 1-249-423-11 CARBON 3.3K 5% 1/4W AR719 1-249-423-11 CARBON 1K 5% 1/4W AR720 1-249-427-11 CARBON 1K 5% 1/4W AR720 1-249-427-11 CARBON 1K 5% 1/4W AR721 1-249-417-11 CARBON 1K 5% 1/4W AR721 1-249-417-11 CARBON 1K 5% 1/4W AR721 1-249-421-11 CARBON 2.2K 5% 1/4W AR722 1-249-421-11 CARBON 2.2K 5% 1/4W AR72	R392	1-249-429-11 CARBON	10K 5	% 1/4W		∆ R713	1-249-397-11 (CARBON	22	5%	1/4W	
R396 1-247-895-00 CARBON 470K 5% 1/4W R397 1-249-429-11 CARBON 10K 5% 1/4W R398 1-249-429-11 CARBON 10K 5% 1/4W R401 1-247-887-00 CARBON 220K 5% 1/4W R402 1-249-429-11 CARBON 10K 5% 1/4W R403 1-247-883-00 CARBON 150K 5% 1/4W R404 1-247-887-00 CARBON 220K 5% 1/4W R405 1-249-425-11 CARBON 220K 5% 1/4W R405 1-249-425-11 CARBON 150K 5% 1/4W R406 1-249-425-11 CARBON 220K 5% 1/4W R407 1-249-425-11 CARBON 150K 5% 1/4W AR718 1-249-393-11 CARBON 10 5% 1/4W AR719 1-249-423-11 CARBON 10 5% 1/4W AR720 1-249-423-11 CARBON 1K 5% 1/4W AR721 1-249-417-11 CARBON 1K 5% 1/4W R404 1-247-887-00 CARBON 220K 5% 1/4W R405 1-249-425-11 CARBON 4. 7K 5% 1/4W R405 1-249-425-11 CARBON 4. 7K 5% 1/4W R406 1-249-425-11 CARBON 4. 7K 5% 1/4W R407 1-249-425-11 CARBON 2. 2K 5% 1/4W R408 1-249-425-11 CARBON 4. 7K 5% 1/4W R409 1-249-425-11 CARBON 4. 7K 5% 1/4W R409 1-249-425-11 CARBON 4. 7K 5% 1/4W R400 1-249-425-11 CARBON 4. 7K 5% 1/4W R401 1-249-425-11 CARBON 4. 7K 5% 1/4W R402 1-249-425-11 CARBON 4. 7K 5% 1/4W R403 1-249-425-11 CARBON 4. 7K 5% 1/4W R405 1-249-425-11 CARBON 4. 7K 5% 1/4W	page	1 940 400 44 01770							910	5%	1/4₩	
R397 1-249-429-11 CARBON 10K 5% 1/4W R398 1-249-429-11 CARBON 10K 5% 1/4W R401 1-247-887-00 CARBON 220K 5% 1/4W R402 1-249-429-11 CARBON 10K 5% 1/4W R403 1-247-883-00 CARBON 150K 5% 1/4W R404 1-247-887-00 CARBON 220K 5% 1/4W R405 1-249-425-11 CARBON 220K 5% 1/4W R406 1-249-425-11 CARBON 220K 5% 1/4W R4071 1-249-393-11 CARBON 10 5% 1/4W AR718 1-249-393-11 CARBON 10 5% 1/4W AR719 1-249-423-11 CARBON 11 5% 1/4W AR720 1-249-423-11 CARBON 11 5% 1/4W AR721 1-249-417-11 CARBON 11 5% 1/4W R404 1-247-887-00 CARBON 220K 5% 1/4W R405 1-249-425-11 CARBON 4. 7K 5% 1/4W R405 1-249-425-11 CARBON 4. 7K 5% 1/4W R406 1-249-425-11 CARBON 4. 7K 5% 1/4W R407 1 1-249-393-11 CARBON 11 5% 1/4W AR720 1-249-421-11 CARBON 11 5% 1/4W AR721 1-249-421-11 CARBON 2. 2K 5% 1/4W R405 1-249-425-11 CARBON 4. 7K 5% 1/4W R406 1-249-425-11 CARBON 4. 7K 5% 1/4W									390	5%		
R398 1-249-429-11 CARBON 10K 5% 1/4W R401 1-247-887-00 CARBON 220K 5% 1/4W AR718 1-249-393-11 CARBON 10 5% 1/4W AR719 1-249-423-11 CARBON 3. 3K 5% 1/4W AR720 1-249-423-11 CARBON 1K 5% 1/4W R403 1-247-883-00 CARBON 150K 5% 1/4W AR404 1-247-887-00 CARBON 220K 5% 1/4W R405 1-249-425-11 CARBON 4. 7K 5% 1/4W R405 1-249-425-11 CARBON 4. 7K 5% 1/4W R406 1-249-425-11 CARBON 4. 7K 5% 1/4W R407 1-249-425-11 CARBON 2. 2K 5% 1/4W AR722 1-249-421-11 CARBON 2. 2K 5% 1/4W Note: Note:												
R401 1-247-887-00 CARBON 220K 5% 1/4W				٠.		∆ R717	1-249-393-11 C	ARBON	10	5%	1/4W	
R402 1-249-429-11 CARBON 10K 5% 1/4W				· .		A D210	. 040 000	ADDAN.				
R402 1-249-429-11 CARBON 10K 5% 1/4W	WAAT	I 241 OUT-UU CARDUN	44UN 5	o 1/4#								
R403 1-247-883-00 CARBON 150K 5% 1/4W	R402	1-249-429-11 CARRON	10K 5	(1/AW								
R404 1-247-887-00 CARBON 220K 5% 1/4W AR722 1-249-421-11 CARBON 2. 2K 5% 1/4W R405 1-249-425-11 CARBON 4. 7K 5% 1/4W Note: Note:				· ·								
R405 1-249-425-11 CARBON 4.7K 5% 1/4W Note: Note:					İ							
Note: Note:				· .		1711100	441-11 C	ANDUN	2. ZN	J/s	1/4#	
							1	nonto identi				A:E: 4

Les composants identifiés par une marque À sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

77.0131	DOWE	D 0115											
MAIN	POWE												~ .
Ref. No.	Part No.	Descr	ription			Remarks	Ref. No.	Part No.	Description	<u>n</u>			Remarks
 AR723	1-247-706-11		330	5%	1/4W		l	1-249-438-11		56K		1/4W	_
∧ R724	1-247-688-11		10	5%	1/4W			1-215-917-11		1K	5%	3W	
	1-247-688-11		10	5%	1/4W			1-215-890-11		470	5% 5%	2₩	F
	1-214-789-00				0.1		1	1-249-426-11		5.6K		1/4W 1/6W	
▲R727	1-214-789-00	RES, MEIAL	PLAIE		0. 1		R957	1-249-385-11	CARBON	2. 2	376	1/0#	
R728	1-260-072-11	CADBON	4. 7	5%	1/2W		R958	1-249-385-11	CARRON	2. 2	5%	1/6W	
	1-260-072-11		10	5%	1/2W			1-249-385-11		2. 2	5%	1/6W	
	1-249-407-11		150	5%	1/4W		1	1-249-385-11		2. 2	5%	1/6W	
	1-249-431-11		15K	5%	1/4W		1	1-249-385-11		2. 2	5%	1/6W	
R732	1-249-437-11		47K	5%	1/4W		i	1-249-385-11		2. 2	5%	1/6W	
R734	1-249-425-11	CARBON	4. 7K	5%	1/4W		R963	1-249-385-11	CARBON	2. 2	5%	1/6W	
R736	1-249-438-11	CARBON	56K	5%	1/4W		R964	1-249-385-11	CARBON	2. 2	5%	1/6W	
R737	1-249-428-11	CARBON	8. 2K	5%	1/4W		R965	1-249-385-11	CARBON	2. 2	5%	1/6W	
	1-249-429-11		10K		1/4W			1-249-385-11		2. 2	5%	1/6W	
R740	1-249-427-11	CARBON	6.8K	5%	1/4W		R968	1-249-417-11	CARBON	1 K	5%	1/4W	
D741	1 240 441 11	CADDON	100	Εø	1 //W		DOGO	1-249-393-11	CADDON	10	5%	1/4W	
	1-249-441-11 1-249-425-11		100K 4.7K		1/4W 1/4W		Vaca	1-249-393-11	CARDON	10	J/0	1/41	
	1-249-425-11		4. 7K		1/4W				< RELAY >				
	1-249-423-11		3.3K		1/4W				(KDDM1 /				
	1-249-417-11		1K	5%	1/4W		RY701	1-515-356-00	RELAY				
					•								
R752	1-249-435-11	CARBON	33K	5%	1/4W				< VIBRATOR >				
R753	1-249-411-11	CARBON	330	5%	1/4W								
R754	1-249-421-11	CARBON	2. 2K	5%	1/4₩		X301	1-577-157-11	VIBRATOR, CERAM	IC 8MH	İz		
R755	1-249-434-11	CARBON	27K		1/4W								
R756	1-249-426-11	CARBON	5. 6K	5%	1/4W		******	*********	***********	******	*****	*****	*****
D###	1 040 405 11	CADDOM	4 77	Γω	1 /AW			1 4247 AE1 4	DOWED CUIDNI V DA	11DD (דמ ומעטי	פוני	
	1-249-425-11 1-249-435-11		4. 7K 33K		1/4W 1/4W		*	A-4341-U01-A	POWER SUPPLY BO			£	
R758 R759	1-249-435-11		330	5%	1/4W				**********	*****	*****		
	1-249-409-11		220	5%	1/4W				< BASE POST >				
	1-249-409-11		220	5%	1/4W								
							BP901	1-535-139-00	BASE POST 22MM	(10NN	PITCH)	2P	
R762	1-249-435-11	CARBON	33K	5%	1/4W		BP902	1-535-139-00	BASE POST 22MM	(10NN	PITCH)	2P	
▲R763	1-249-397-11	CARBON	22	5%	1/4W		BP904	1-535-139-00	BASE POST 22MM	(10MM	PITCH)	2P	
R764	1-247-830-11		910	5%	1/4W								
R765	1-249-412-11		390	5%	1/4W				< CAPACITOR >				
 ∆R766	1-249-397-11	CARBON	22	5%	1/4W		C001	1-161-744-00	CEDANIC	0 01.	.r		400V
A D767	1-249-393-11	CADDON	10	5%	1/4W		C901 C911	1-101-744-00		0. 01: 1000:		20%	25V
∆ R767 ∆ R768	1-249-393-11		10	5%	1/4W		C913	1-124-337-11		47uF	ır	20%	25V
∆R769	1-249-423-11		3. 3K		1/4W		C914	1-124-477-11		47uF		20%	25V
∆R770	1-249-417-11		1K	5%	1/4W		C916	1-164-097-11		0. 02	2uF	20,0	50V
∆R771	1-249-417-11		1K	5%	1/4W								
							C917	1-164-097-11	CERAMIC	0. 02	2uF		50V
▲R772	1-249-421-11	CARBON	2. 2K	5%	1/4W		C918	1-124-903-11	ELECT	1uF		20%	50V
▲R773	1-247-706-11	CARBON	330	5%	1/4W		C919	1-164-097-11		0. 02			50V
⚠ R774	1-247-688-11		10	5%	1/4W		C920	1-124-464-11		0. 22		20%	50V
 AR775	1-247-688-11		10	5%	1/4W		C921	1-164-097-11	CERANIC	0. 02	2uF		50V
▲R776	1-214-789-00	KES, METAI	PLATE		0. 1		0000	1 100 000 00	CEDANIC	1000	P	100	EOV
∆ R777	1-214-789-00	RES METAL	מדג וק		0. 1		C922	1-162-282-31	CERMAIL	100P	r	10%	50 V
ÆK777 R778	1-214-789-00		4.7	5%	0.1 1/2\				< CONNECTOTR >				
R779	1-260-072-11		10	5%	1/2W				· OOMBOIOIN >				
R780	1-249-407-11		150	5%	1/4W		* CJ901	1-568-826-11	SOCKET, CONNEC	TOR 7P			
R781	1-249-431-11		15K	5%	1/4W		1		PLUG, CONNECTO		MN) 2P		
					-,		1						
						—3	2—	fied by ma ted line v are critical Replace of	onents identi- ark \(\frac{\Lambda}{\Lambda}\) or dot- vith mark \(\frac{\Lambda}{\Lambda}\) for safety. only with part	une pour Ne le pièce	compo marqu la séc es ren	ie <u>//</u> curité. iplace	s identifiés par sont critiques er que par une numéro spéci-
								number s	JECHIEU.	fié.			

					РО	WER S	UPPLY	POWE	R SW	REAR
Ref. No.	Part No. Descri	iption		Remarks	Ref. No.	Part No.	Descript	ion		Remarks
	< DIODE >				*	1-642-685-11	POWER SW BOA	RD		
							*********	**		
	8-719-200-82 DIODE 11E						< CONNECTOTR			
	8-719-200-82 DIODE						COMMECTOR	,		
	8-719-200-82 DIODE 11E				* CP101	1-565-295-11	PLUG, CONNECT	OR 4P		
		4148 M								
				ļ			< SWITCH >			
		4148M				4 554 000 04	awaman maan	r D / ANOMON DA	ump\	
		S6C3L			\$101	1-554-303-21	SWITCH, TACTI	LE (SYSTEM PO	WER)	
		S6C3L S4ALL			******	*******	*********	*******	*******	
		4148M								
					*	1-642-682-11	REAR BOARD			
	< TRANSISTO	OR >		-			*******			
0011	0 700 200 1E TRANSISTOR	2502012					/ CADACITOD \			
•	8-729-209-15 TRANSISTOR 8-729-119-78 TRANSISTOR			Ì			< CAPACITOR >			
-	8-729-119-78 TRANSISTOR			ĺ	C801	1-124-927-11	ELECT	4. 7uF	20% 100	V
	8-729-119-76 TRANSISTOR					1-162-282-31		100PF	10% 50V	
Q925	8-729-119-76 TRANSISTOR	2SA1175-HFE			C803	1-162-282-31	CERANIC	100PF	10% 50V	I
					C804	1-124-477-11	ELECT	47uF	20% 25\	
Q926	8-729-119-78 TRANSISTOR	2SC2785-HFE			C805	1-162-191-31	CERANIC	2. 2PF	10% 50V	1
	< RESISTOR				C806	1-124-907-11	ei ect	10uF	20% 50\	1
	/ RESISTOR					1-124-907-11		10uF	20% 50\	
R911	1-249-417-11 CARBON	1K 5%	1/4W			1-164-097-11		0. 022uF	501	
	1-249-437-11 CARBON	47K 5%	1/4W		C810	1-136-171-00	FILM	0. 33uF	5% 50V	1
R913	1-249-433-11 CARBON	22K 5%	1/4W							
	1-249-429-11 CARBON	10K 5%	1/4W				< CONNECTOTR	>		
R915	1-249-425-11 CARBON	4.7K 5%	1/4W		C 1002	1 500 500 11	DI LIC COMMECT	VD (3 EMM) 3D	•	
R916	1-249-429-11 CARBON	10K 5%	1/4W				PLUG, CONNECT SOCKET. CONNE			
	1-249-417-11 CARBON	1K 5%	1/4W		+ 03000	1 000 020 11	DOUBLI, COME	Olok II		
	1-249-429-11 CARBON	10K 5%	1/4W				< DIODE >			
R919	1-249-426-11 CARBON	5.6K 5%	1/4W							
R920	1-249-417-11 CARBON	1K 5%	1/4W		D801	8-719-987-63				
	1-249-426-11 CARBON	5. 6K 5%	1/4W		D802	8-719-987-63				
R922	1-249-396-11 CARBON	18 5%	1/6W		D803	8-719-987-63	DIODE 1N414	OM.		
	< RELAY >						< IC >			
RY901	1-515-701-11 RELAY				IC801	8-759-502-33	IC SI18752			
	, WD LIVED ON	ump								
	< TRANSFORM	aer >					< COIL >			
∆ T902	1-449-993-21 TRANSFORMER	R POWER			L801	1-420-872-00	COIL, AIR COR	E		
Д1002 ·	1 440 000 DI IMMOLOMEDI	i, Tonzii				2 120 012 00		-		
	< FUSE >						< TRANSISTOR	>		
-	1-532-748-11 FUSE, GLASS		(Canadian)		Q801	8-729-178-42	TRANSISTOR	2SC2784-F		
∆ F901	1-532-749-11 FUSE, GLASS	3 TUBE 8A (US)					∠ DECICTAD \			
*******	*******	******	*****				< RESISTOR >			
4 - 4 4 4 4 4 4 4 4 4 4					R801	1-249-417-11	CARBON	1K 5%	1/4W	
					R802	1-249-439-11	CARBON	68K 5%	1/4W	
					R803	1-249-419-11	CARBON	1.5K 5%	1/4W	
					R804	1-249-439-11	CARBON	68K 5%	1/4W	
					R805	1-217-151-00	RES, METAL PL	ATE	0. 22	
						Note:		Note:		
							onents identi- ark ∧ or dot-		osants iden ue	titiės par
						ted line w	ith mark ⚠	pour la sé	curité.	onuques
				0	2	are critical	for safety.	Ne les rer	nplacer que	
				-33	5—	Replace of number sp	only with part	pièce port	ant le numé	ero spéci-
						number st	oomeu.	116.	·	

SP SW	SP TM	SURR SP	VOL			
Ref. No.	Part No.	Description		Remarks	Ref. No.	Part No. Description Remark
R806 1-2	249-389-11 CARBO	N 4.7 5%	1/4W		*	1-642-693-11 VOL BOARD
	249-409-11 CARBO		1/4W			******
	249-428-11 CARBO		1/4W			
	249-393-11 CARBO 249-435-11 CARBO		1/4W			< CAPACITOR >
NO10 1-2	435-433-11 CARBO		1/4W		C421	1-164-097-11 CERAMIC 0.022uF 50V < CONNECTOR >
RY801 1-5	515-790-11 RELAY				* CJ421	1-568-828-11 SOCKET, CONNECTOR 9P
********	********	*********	*********	:		< VARIABLE RESISTOR >
* 1-6	42-690-11 SP SW	BOARD *****			RV405	1-241-816-11 RES, VAR, CARBON 100KX4 (MASTER VOLUME)
					******	************
	< CONI	NECTOR >				
* CP702 1-5	664-778-11 PLUG,	CONNECTOR (2.5MM) 4				MISCELLANEOUS ************
	< JACI	K >				1-575-666-11 WIRE, FLAT TYPE (5 CORE)
J701 1-5	663-347-11 JACK,	LARGE TYPE			15	1-690-114-11 WIRE, FLAT TYPE (7 CORE) 1-590-487-11 WIRE, FLAT TYPE (17 CORE)
	< RES	ISTOR >				1-590-241-11 WIRE, FLAT TYPE (7 CORE) 1-690-588-31 WIRE, FLAT TYPE (9 CORE)
↑ ₽733 1-2	216-431-11 METAL	OXIDE 560 5%	1W F		A CMD001	1 EE1 470 00 CODD. DOWED
	216-431-11 METAL		1W F		FL101	1-551-478-00 CORD, POWER 1-519-663-11 INDICATOR TUBE, FLUORESCENT
	< SWIT	CCH >				1-450-806-11 TRANSFORMER, POWER
S7 01 1-5	72-812-11 SWITC	i, ROTARY SLIDE (SPE	AKERS)		******	***************************************
*******	**********	***********	*******	:		ACCESSORIES & PACKING MATERIALS
* 1-6	42-691-11 SP TM			:		1-693-023-11 COMMANDER (STANDARD) (RM-U521)
	****	*****		:		3-707-584-31 COVER, BATTERY
	< TER	AINAL >			*	3-754-877-21 MANUAL, INSTRUCTION (ENGLISH) 4-949-866-02 INDIVIDUAL CARTON
					*	4-949-872-01 CUSHION
TM701 1-5	37-341-11 TERMI!	NAL BOARD (8P SP) (FI	RONT SPEAKER)			
*******	*******	*********	******		*******	***************************************
* 1-6	42-692-11 SURR S	SP ROARD		ļ		**************************************
. 10		******		!	!	HARDWARE LIST
	< CON	NECTOR >			#1 #2	7-682-548-04 SCREW +BVTT 3X8 (S)
* CP701 1-5	06-509-11 PIN, (CONNECTOR 4P			#2 #3 #4	7-682-561-04 SCREW +BYTT 4X8 (S) 7-682-950-01 SCREW +PSW 3X12 7-682-949-01 SCREW +PSW 3X10
	< TERM	(INAL >			#5	7-682-548-09 SCREW +B 3X8
TM702 1-5	37-265-31 TERMIN	NAL BOARD (REAR SPEAR	(ER)		#6	7-685-646-79 SCREW +BVTP 3X8 TYPE2 N-S
******	***********	****************	******			Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. Note: Les composants identifiés pune marque ⚠ sont critique pour la sécurité. Ne les remplacer que par un pièce portant le numéro spé fié.

Sony Corporation Audio Group English 92E1635-1 Printed in Japan ©1992.5

TA-AV421

SONY. **SERVICE MANUAL**

US Model Canadian Model

CORRECTION-1

Correct your service manual as shown below.

The information about the following parts is wrong. Replace page 28 with this sheet.

- DISPLAY BOARD PART SECTION
- FUSE BOARD PART SECTION
- IC BOARD PART SECTION
- MAIN BOARD PART SECTION
 - Contimued on next pate -

DISPLAY

FUSE

MAIN

Ref. No.	Part No.	Description			Remarks	Ref. No.	. Part No.	Description		R	emarks
R448	1-249-417-11		1K	5%	1/4W	*	1-642-696-11			**	ÇIIIGI KS
R446 R449			2. 2K		•	*	1-042-090-11				
R449 R450	1-249-421-11		2. ZK 47K	5% 5%	1/4W 1/4W			******			
	1-249-437-11				· ·			/ COMMECTOTO >			
	1-249-417-11		1K	5%	1/4W			< CONNECTOTR >			
R461	1-247-887-00	CARBON	220K	5%	1/4₩	+ CD0E1	1_564_779_11	PLUG, CONNECTO	D (3 EMM) 1D	,	
R462	1-249-429-11	CARBON	10K	5%	1/4W	+ CF 951	1-504-776-11	FLOG, CONNECTO	n (2. 3mm) 4r		
R463	1-249-421-11		2. 2K		1/4W			< IC >			
R464	1-247-887-00		220K		1/4W			10 /			
R465	1-249-427-11		6. 8K		1/4W	10953	8-759-604-32	IC M5F7810			
R466	1-249-438-11		56K	5%	1/4W	1	8-759-604-39				
11100	1 210 100 11	Calibor	0011	0.0	1/ 111	10000	0 100 001 00	10 /110231			
R472	1-249-441-11	CARBON	100K	5%	1/4W						
R474	1-249-414-11	CARBON	560	5%	1/4W	******	*******	******	*******	******	****
R475	1-249-437-11	CARBON	47K	5%	1/4W						
R476	1-249-426-11	CARBON	5.6K	5%	1/4W	*	A-4347-042-A	MAIN BOARD, CO	MPLETE (US)		
R477	1-249-411-11	CARBON	330	5%	1/4W			********	******		
						*	A-4347-052-A	MAIN BOARD, CO	MPLETE (Cana	dian)	
R901	1-202-725-00	SOLID	3.3M	10%	1/2W			*******	*******	****	
		< VARIABLE RESI	STOR >				1-533-217-31	HOLDER, FUSE			
						*		PLATE, GROUND			
		RES, VAR, CARBO					7-682-548-04	SCREW +BVTT	3X8 (S)		
		RES, VAR, CARBO									
		RES, VAR, CARBO			•			< CAPACITOR >			
RV404	1-238-965-21	RES, VAR, CARBO	N 100K	/100K	(BALANCE)						
	•					C301	1-124-907-11		10uF	20%	50 V
		< SWITCH >				C302	1-162-215-31		47PF	5%	50V
						C303	1-124-907-11		10uF	20%	50 V
S102		SWITCH, TACTILE				C311	1-124-907-11	ELECT	10uF	20%	50V
S103		SWITCH, TACTILE		R)		C312	1-162-215-31	CERAMIC	47PF	5%	50V
S104		SWITCH, TACTILE									
S105		SWITCH, TACTILE				C313	1-124-907-11	ELECT	10uF	20%	50 V
S106	1-554-303-21	SWITCH, TACTILE	(VIDE	0)		C321	1-126-925-11	ELECT	470uF	20%	10 V
						C322	1-124-927-11		4. 7uF	20%	100V
S107		SWITCH, TACTILE				C323	1-162-294-31		0.001uF	10%	50 V
S108		SWITCH, TACTILE				C324	1-130-487-00	MYLAR	0. 022uF	5%	50 V
S111		SWITCH, TACTILE									
S112		SWITCH, TACTILE	•	•		C325	1-162-284-31		150PF	10%	50 V
S113	1-554-303-21	SWITCH, TACTILE	(SIMU	LATED)		C326	1-126-923-11		220uF	20%	10 V
						1	1-126-923-11		220uF	20%	10 V
		SWITCH, TACTILE	•	,		C328	1-164-159-11		0. 1uF		50 V
S120	1-554-303-21	SWITCH, TACTILE	(DOLB	Y)		C329	1-126-933-11	ELECT	100uF	20%	16V
		/ WIDDATOD				0000	1 100 100 00	DILM	0.00 =	FA /	F.C
		< VIBRATOR >				C332	1-136-169-00		0. 22uF	5%	50V
V101	1 599 101	MIDDIADO ODC	70 4 -	^1		C333	1-130-493-00		0.068uF	5%	50V
X101	1-211-101-11	VIBRATOR, CERAM	1C 4. I	9MHZ		C334	1-102-124-00	-	0. 0039uF	10%	50V
						C335	1-102-125-00	-	4700PF	10%	50V
******	********	*********	*****	*****	*******	C336	1-130-489-00		0. 033uF	5%	50V
	1 040 000 11	DUCE DOADS				C337	1-124-927-11		4. 7uF	20%	100V
*	1-642-689-11					C338	1-124-903-11		1uF	20%	50V
		*******				C339	1-124-903-11		luF	20%	50V
		/ DUCE >				C340	1-130-489-00		0. 033uF	5%	50V
		< FUSE >				C341	1-102-126-00	CERAMIC	0.0056uF	10%	50 V
▲ F951	1-576-109-11	FUSE 54 125V									
∆F952		FUSE 5A 152V									
771 JOG	1 010 100 11	1000 on 1021									
******	*********	*******	*****	*****	*****						
						•					

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:

Les composants identifiés par une marque À sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

TA-AV421

SONY. SERVICE MANUAL

US Model Canadian Model

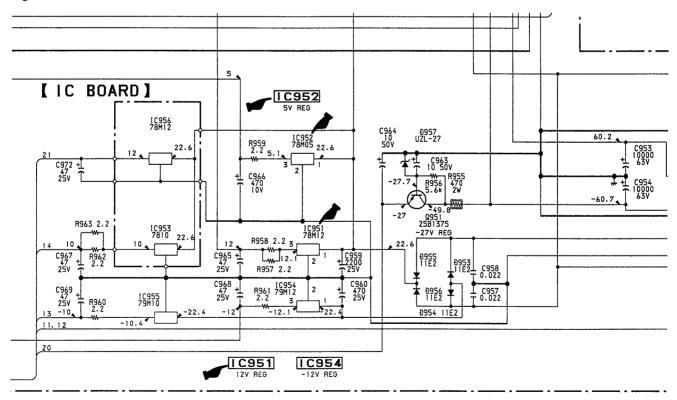
CORRECTION-2

Correct your service manual as shown below.

:indicates corrected portion.

Page	IN	CORRECTION	CORRECTION						
30	Ref. No. Part No. IC951 8-759-604-39	Description AN6291		Part No. 8-759-604-39	Description M5F78M12L				

Page 18-19 (2-5. SCHEMATIC DIAGRAM — MAIN SECTION —)



TA-AV421

SONY. SERVICE MANUAL

US Model Canadian Model

CORRECTION-3

Correct your service manual as shown below.

• TA-AV421 is the amplifier section of the stereo component system SEN-421CD.

: indicates corrected portion.

Page		INCORRECT		CORRECT
	No. Part No.	Description	Part No.	Description
34	ACCESSORIES	& PACKING MATERIALS	ACCESSO	RIES & PACKING MATERIALS
	1-693-023-11	COMMANDER (STANDARD) (RM-U521)	* 4-949-872-01	CUSHION
	3-707-584-31	COVER, BATTERY		
	3-754-877-21	MANUAL, INSTRUCTION (ENGLISH)		
	* 4-949-866-02	INDIVIDUAL CARTON		
	* 4-949-872-01	CUSHION		

(RPC-95041)